

Nuclear Attack Planning Base-1990 Final Project Report

Annex A Direct Effects & Fire Risk Statistics & Maps



ANNEX A - - DIRECT EFFECTS & FIRE RISK

This Annex provides two summaries of the Direct Effects and Fire Risks to the U.S. resident population and land area.

PART 1. POPULATION GRID FILE (PGF) MAPS AND DATA

This part shows actual resident population and land area at risk from direct effects and fire as computed from PGF data. For a discussion of the methodology employed to obtain this data see Part 1, "Project Overview". This data is presented in regional summaries and computer-generated State map plots of PGF points showing blast overpressure and coexistent fire risk envelopes beginning on the pages following.

PART 2. HIGHEST DIRECT EFFECTS RISK BY COUNTY

This part, which begins on page A-81, shows county resident population and land area under direct effects risk based upon the highest recorded risk level within the county regardless of actual area covered by blast. This summary also includes counties which are "risk free", i.e., counties where blast overpressures were less than 0.5 psi.

ANNEX A - DIRECT EFFECTS & FIRE RISK

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NATIONAL DIRECT EFFECTS & FIRE RISK SUMMARY

REGION/DATA	TOTALS	VERY HIGH GT 10 psi	HIGH 5 to 10 psi	MEDIUM 2 to 5 psi	LOW .5 to 2 psi	NONE LT .5 psi
I Population	12320207 (1.00)	2896912 (.23)	1597471 (.13)	2539876 (.21)	3085258 (.25)	2200690 (.18)
Land Area	61582 (1.00)	1772 (.03)	1751 (.03)	4830 (.08)	14922 (.24)	38407 (.62)
II Population	28524821 (1.00)	6216782 (.23)	5247384 (.18)	7174415 (.25)	5002208 (.18)	4684032 (.17)
Land Area	58436 (1.00)	1931 (.03)	2418 (.04)	6496 (.11)	27594 (.47)	27594 (.47)
III Population ...	25107876 (1.00)	5561771 (.22)	3026977 (.15)	5290161 (.21)	5591624 (.23)	4837343 (.19)
Land Area	120550 (1.00)	4047 (.03)	4480 (.04)	14176 (.12)	41433 (.34)	56415 (.47)
IV Population	42442705 (1.00)	5767158 (.16)	3985872 (.09)	6856991 (.16)	8190581 (.19)	17642103 (.42)
Land Area	379046 (1.00)	4788 (.01)	6069 (.02)	21348 (.06)	83971 (.22)	262888 (.69)
V Population	45687087 (1.00)	7118361 (.16)	5512722 (.12)	9692910 (.21)	9307723 (.20)	14050821 (.31)
Land Area	323545 (1.00)	4465 (.01)	5512 (.02)	18219 (.06)	69267 (.21)	226082 (.70)
VI Population	28140362 (1.00)	4692255 (.17)	3674256 (.13)	5871072 (.21)	5250122 (.19)	8652657 (.31)
Land Area	548583 (1.00)	4703 (.01)	5348 (.01)	19637 (.04)	80016 (.15)	439536 (.80)
VII Population ...	11925241 (1.00)	1818840 (.15)	1021635 (.09)	1827679 (.15)	1931387 (.16)	5325700 (.45)
Land Area	282971 (1.00)	4671 (.02)	4713 (.02)	13463 (.05)	31919 (.11)	227857 (.81)
VIII Population ..	7709731 (1.00)	1746086 (.23)	1061814 (.14)	1184503 (.15)	1143293 (.15)	2574035 (.33)
Land Area	573497 (1.00)	14118 (.02)	14208 (.02)	34450 (.06)	60495 (.11)	450246 (.79)
IX Population	31504342 (1.00)	9874143 (.31)	5447048 (.17)	8475761 (.27)	3917593 (.12)	3789797 (.09)
Land Area	386970 (1.00)	4518 (.01)	3883 (.01)	13087 (.03)	50440 (.13)	323363 (.84)
X Population	8634750 (1.00)	1553969 (.18)	808164 (.09)	1390051 (.16)	1949326 (.23)	933340 (.34)
Land Area	815946 (1.00)	364 (.00)	1514 (.00)	5829 (.01)	26869 (.03)	780370 (.96)

TOTAL Population . 242109419 (1.00) 47246177 (.20) 32187893 (.13) 50303419 (.21) 45369115 (.19) 66690518 (.27)
Land Area .. 3551226 (1.00) 46352 (.01) 49896 (.01) 151535 (.04) 479329 (.13) 2832758 (.80)

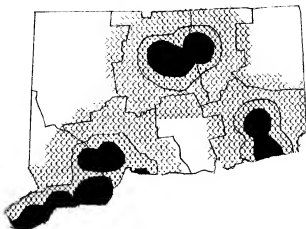
(xxx) Less than 1 percent

F E M A R E G I O N I - - D I R E C T E F F E C T S & F I R E R I S K

STATE/DATA	TOTALS	VERY HIGH		HIGH	MEDIUM	LOW		NONE
		GT 10 psi	5 to 10 psi			.5 to 2 psi	LT .5 psi	
CONNECTICUT	Population Land Area	3165461 (1.00) 4872 (1.00)	699055 (.22) 439 (.09)	385023 (.12) 434 (.09)	1061179 (.33) 1259 (.26)	30981 (.01) 2745 (.56)	285635 (.09) -5 (N/A)*	
MAINE	Population Land Area	1160878 (1.00) 30995 (1.00)	147069 (.13) 233 (.01)	60895 (.05) 307 (.01)	123388 (.10) 1068 (.03)	284644 (.24) 4602 (.15)	544882 (.47) 24785 (.80)	
MASSACHUSETTS	Population Land Area	5503475 (1.00) 6497 (1.00)	1695805 (.31) 799 (.12)	919397 (.17) 661 (.10)	1159268 (.21) 1603 (.25)	1231466 (.22) 4332 (.67)	497559 (.09) -898 (N/A)*	
NEW HAMPSHIRE	Population Land Area	990437 (1.00) 8992 (1.00)	123897 (.12) 116 (.01)	86061 (.09) 164 (.02)	162657 (.16) 392 (.04)	203258 (.20) 1545 (.17)	414564 (.42) 6775 (.75)	
RHODE ISLAND	Population Land Area	965471 (1.00) 1054 (1.00)	208537 (.21) 164 (.16)	186688 (.19) 164 (.16)	362265 (.37) 439 (.42)	259704 (.20) 287 (.27)	--- (.00) --- (.00)	
VERMONT	Population Land Area	534485 (1.00) 9272 (1.00)	22549 (.02) 21 (xxx)	27407 (.06) 21 (xxx)	28710 (.06) 69 (.01)	45007 (.09) 545 (.06)	410812 (.75) 8616 (.93)	
REGION I	Population Land Area	12320201 (1.00) 61682 (1.00)	2896912 (.23) 1772 (.03)	1597471 (.13) 1751 (.03)	2539876 (.21) 4830 (.08)	3085258 (.25) 14922 (.24)	2200684 (.18) 38047 (.62)	

* [NOTE: Anomaly caused by State resource grid points overlapping the State boundaries.]

(xxx) Less than 1 percent



SCALE 1:1000000
ALBERS LAKE MAP PROJECTION

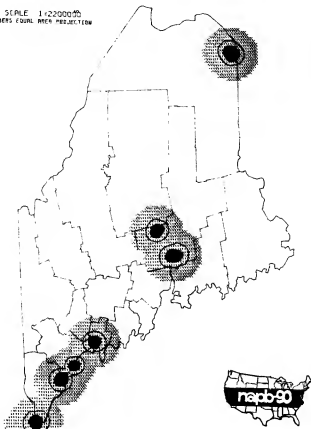


DIRECT EFFECTS RISK AREAS

FEMA REGION I - CONNECTICUT

Black Area: Equal to or greater than 5.0 psi
 Ringed Area: Equal to or greater than 2.0 psi
 Unringed Area: Equal to or greater than 0.5 psi

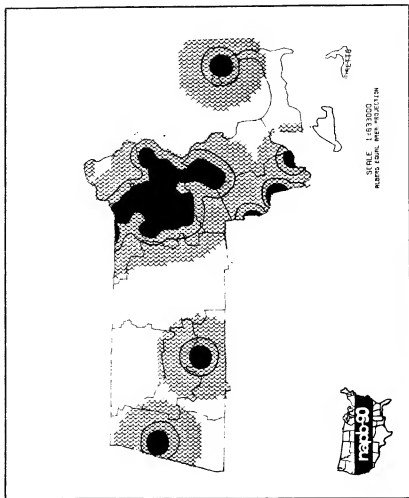
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ALBERS EQUAL AREA PROJECTION



DIRECT EFFECTS RISK AREAS

FEMA REGION I - STATE OF MAINE

Black Area: Equal to or greater than 5.0 psi
 Ringed Area: Equal to or greater than 2.0 psi
 Unringed Area: Equal to or greater than 0.5 psi



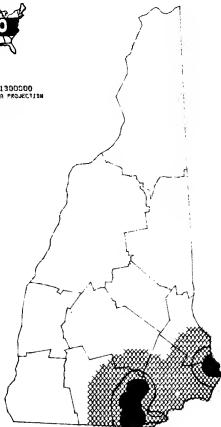
DIRECT EFFECTS RISK AREAS

FEMA REGION I - MASSACHUSETTS

Black Area: Equal to or greater than 5.0 psi
 Ringed Area: Equal to or greater than 2.0 psi
 Unringed Area: Equal to or greater than 0.5 psi



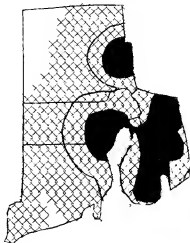
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DIRECT EFFECTS RISK AREAS

FEMA REGION I - STATE OF NEW HAMPSHIRE

Black Area: Equal to or greater than 5.0 psi
Ringed Area: Equal to or greater than 2.0 psi
Unringed Area: Equal to or greater than 0.5 psi



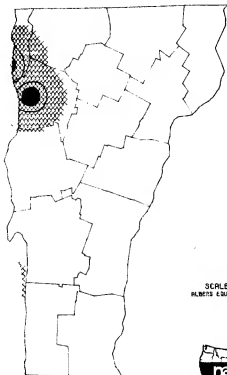
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H. BESS EDGAR, AREA PROJECTION



DIRECT EFFECTS RISK AREAS

FEMA REGION I - RHODE ISLAND

Black Area: Equal to or greater than 5.0 psi
 Ringed Area: Equal to or greater than 2.0 psi
 Unringed Area: Equal to or greater than 0.5 psi



SCALE 1:1300000
ALBERS EQUAL AREA PROJECTION



DIRECT EFFECTS RISK AREAS

FEMA REGION I - STATE OF VERMONT

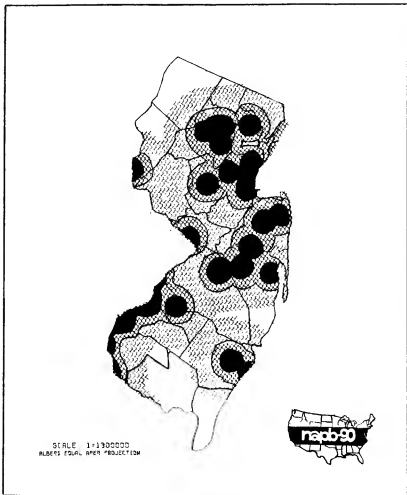
Black Area: Equal to or greater than 5.0 psi
 Ringed Area: Equal to or greater than 2.0 psi
 Unringed Area: Equal to or greater than 0.5 psi

F E M A R E G I O N I I - - D I R E C T E F F E C T & F I R E R I S K S

STATE/DATA	TOTALS	VERY HIGH GT 10 psi	HIGH 5 to 10 psi	MEDIUM 2 to 5 psi	LOW .5 to 2 psi	NONE LT .5 psi
NEW JERSEY	7551161 (1.00) 7468 (1.00)	1150926 (.15) 614 (.08)	1509143 (.20) 841 (.11)	2795018 (.37) 2264 (.30)	1792627 (.24) 4715 (.63)	95447 (.04) -970 (N/A)*
NEW YORK	17774143 (1.00) 43377 (1.00)	4999963 (.28) 1317 (.03)	3657085 (.21) 1577 (.04)	3932084 (.22) 4232 (.10)	2595023 (.15) 15282 (.35)	599988 (.14) 20969 (.48)
PUERTO RICO	3196520 (1.00) 3459 (1.00)	57893 (.02) ***	81156 (.03) ***	447313 (.14) ***	614558 (.19) ***	969600 (.63) ***
VIRGIN ISLANDS	104294 (1.00) 132 (1.00)	*** ***	*** ***	*** ***	*** ***	*** ***
REGION II	28324921 (1.00) 58436 (1.00)	6216782 (.22) 1931 (.03)	5247384 (.18) 2418 (.04)	7174415 (.25) 6496 (.11)	5002208 (.17) 19997 (.34)	684032 (.17) 27594 (.47)

*[NOTE: Anomaly caused by State resource grid points overlapping the State boundaries.]

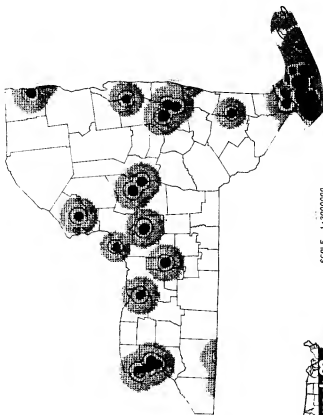
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DIRECT EFFECTS RISK AREAS

FEMA REGION II - NEW JERSEY

Black Area: Equal to or greater than 5.0 psi
Ringed Area: Equal to or greater than 2.0 psi
Unringed Area: Equal to or greater than 0.5 psi



SCALE 1:3000000
METERS EQUAL WHEN PROJECTION



DIRECT EFFECTS RISK AREAS

FEMA REGION II - NEW YORK

Black Area: Equal to or greater than 5.0 psi
 Ringed Area: Equal to or greater than 2.0 psi
 Unringed Area: Equal to or greater than 0.5 psi

[MAP WILL BE FURNISHED SEPARATELY]

DIRECT EFFECTS RISK AREAS

FEMA REGION II - PUERTO RICO

Black Area: Equal to or greater than 5.0 psi
Ringed Area: Equal to or greater than 2.0 psi
Unringed Area: Equal to or greater than 0.5 psi

[MAP WILL BE FURNISHED SEPARATELY]

DIRECT EFFECTS RISK AREAS

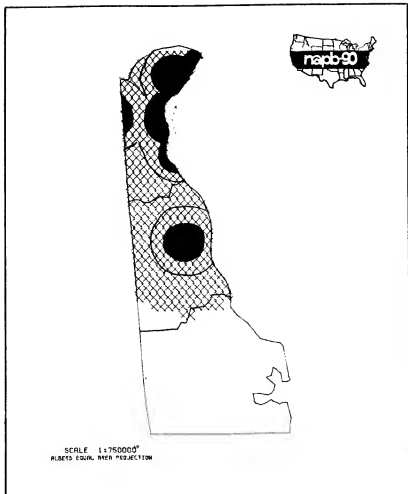
FEMA REGION II - TERRITORY OF THE VIRGIN ISLANDS

Black Area: Equal to or greater than 5.0 psi
Ringed Area: Equal to or greater than 2.0 psi
Unringed Area: Equal to or greater than 0.5 psi

FEMA REGION III - - DIRECT EFFECTS & FIRE RISKS

STATE/DATA	TOTALS	VERY HIGH GT 10 psi	HIGH 5 to 10 psi	MEDIUM 2 to 5 psi	LOW .5 to 2 psi	NONE LT .5 psi
DIST OF COLUMBIA	618906 (1.00)	379799 (.61)	182859 (.29)	56248 (.10)	---	---
Population						
Land Area	93 (1.00)	63 (.68)*	38 (.41)*	15 (.16)*	---	---
DELAWARE	530229 (1.00)	158757 (.30)	77026 (.15)	151013 (.28)	36073 (.08)	107360 (.19)
Population						
Land Area	1933 (1.00)	111 (.06)	175 (.09)	412 (.21)	688 (.36)	547 (.28)
MARYLAND	4381743 (1.00)	1084306 (.25)	843253 (.19)	1254439 (.29)	866103 (.20)	333642 (.08)
Population						
Land Area	9838 (1.00)	762 (.08)	820 (.08)	2391 (.24)	4810 (.49)	1057 (.11)
PENNSYLVANIA	11909083 (1.00)	2395327 (.20)	1870960 (.16)	2578836 (.22)	2908707 (.24)	2155253 (.18)
Population						
Land Area	44692 (1.00)	1566 (.03)	1888 (.04)	6020 (.13)	17246 (.38)	18172 (.40)
VIRGINIA	5715659 (1.00)	1358668 (.24)	765990 (.13)	976016 (.17)	1111036 (.19)	1503949 (.26)
Population						
Land Area	39700 (1.00)	1106 (.03)	1068 (.03)	3349 (.08)	11812 (.30)	22365 (.56)
WEST VIRGINIA	1952256 (1.00)	184914 (.09)	86709 (.05)	282609 (.14)	669705 (.34)	728319 (.38)
Population						
Land Area	24124 (1.00)	439 (.02)	492 (.02)	1989 (.08)	6877 (.29)	14372 (.60)
REGION III	25107876 (1.00)	5561771 (.22)	3826977 (.15)	5290161 (.21)	5591624 (.22)	4837343 (.19)
Population						
Land Area	120550 (1.00)	4047 (.03)	4480 (.04)	14176 (.12)	41433 (.34)	56415 (.47)

*[NOTE: Anomaly caused by State resource grid points overlapping the State boundaries.]



DIRECT EFFECTS RISK AREAS

FEMA REGION III - DELAWARE

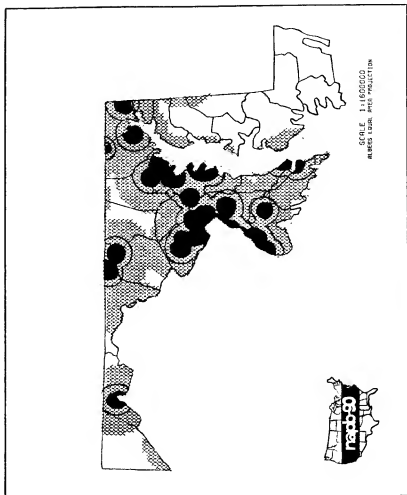
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Ringed Area: Equal to or greater than 2.0 psi
Unringed Area: Equal to or greater than 0.5 psi

[MAP WILL BE FURNISHED SEPARATELY]

DIRECT EFFECTS RISK AREAS

FEMA REGION III - DISTRICT OF COLUMBIA AREA

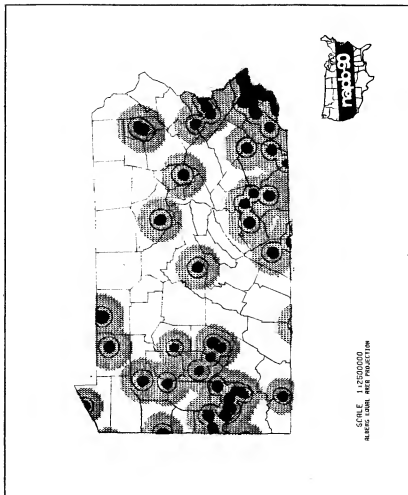
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DIRECT EFFECTS RISK AREAS

FEMA REGION III - MARYLAND

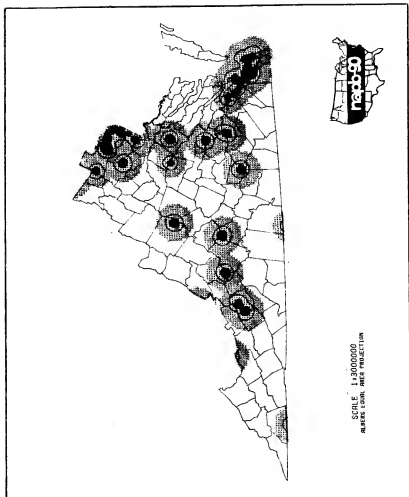
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DIRECT EFFECTS RISK AREAS

FEMA REGION III - PENNSYLVANIA

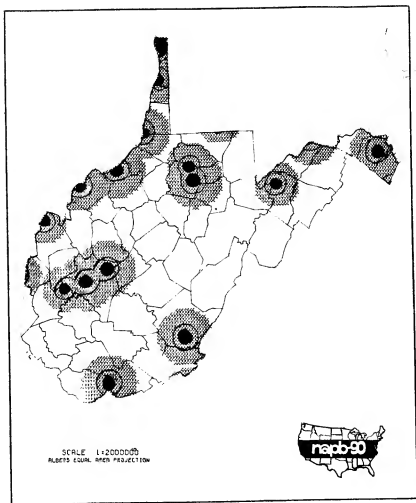
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 Ringed Area: Equal to or greater than 2.0 psi
 Unringed Area: Equal to or greater than 0.5 psi



DIRECT EFFECTS RISK AREAS

FEMA REGION III - VIRGINIA

Black Area: Equal to or greater than 5.0 psi
 Ringed Area: Equal to or greater than 2.0 psi
 Unringed Area: Equal to or greater than 0.5 psi



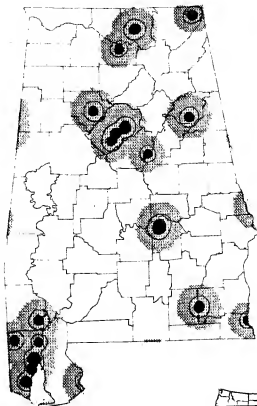
DIRECT EFFECTS RISK AREAS

FEMA REGION III - WEST VIRGINIA

Black Area: Equal to or greater than 5.0 psi
 Ringed Area: Equal to or greater than 2.0 psi
 Unringed Area: Equal to or greater than 0.5 psi

F E M A R E G I O N I V - - D I R E C T E F F E C T S & F I R E R I S K S

STATE/DATE	TOTALS	VERY HIGH GT 10 psi	HIGH 5 to 10 psi	MEDIUM 2 to 5 psi	LOW .5 to 2 psi	NONE LT .5 psi
ALABAMA						
Population	3959145 (1.00)	496537 (.13)	428603 (.11)	557090 (.14)	686281 (.17)	1790634 (.45)
Land Area	50739 (1.00)	523 (.01)	747 (.01)	2629 (.05)	14866 (.29)	31954 (.63)
FLORIDA						
Population	11883346 (1.00)	2457768 (.21)	1587622 (.13)	2485369 (.21)	2094563 (.18)	3258024 (.27)
Land Area	63397 (1.00)	1333 (.02)	1397 (.02)	5025 (.08)	17732 (.28)	37920 (.60)
GEORGIA						
Population	5929253 (1.00)	820023 (.14)	632291 (.11)	1312362 (.22)	1192531 (.20)	1972026 (.33)
Land Area	58117 (1.00)	746 (.01)	952 (.02)	3629 (.06)	12188 (.21)	40602 (.70)
KENTUCKY						
Population	3730146 (1.00)	403894 (.11)	289245 (.08)	448707 (.12)	905660 (.24)	1682640 (.45)
Land Area	39639 (1.00)	397 (.01)	566 (.01)	1862 (.05)	7940 (.20)	28874 (.73)
MISSISSIPPI						
Population	2617133 (1.00)	228224 (.09)	187546 (.07)	315988 (.12)	380394 (.15)	1504981 (.57)
Land Area	47174 (1.00)	413 (.01)	493 (.01)	1797 (.04)	7297 (.15)	37192 (.79)
N. CAROLINA						
Population	6233774 (1.00)	391174 (.06)	256164 (.04)	732968 (.12)	1251116 (.20)	3602352 (.58)
Land Area	48843 (1.00)	540 (.01)	597 (.01)	2439 (.05)	9469 (.19)	35789 (.73)
S. CAROLINA						
Population	3343422 (1.00)	341270 (.10)	245008 (.07)	356102 (.11)	649206 (.19)	1751836 (.52)
Land Area	30207 (1.00)	333 (.01)	519 (.02)	1724 (.06)	7078 (.23)	20553 (.68)
TENNESSEE						
Population	4746516 (1.00)	628268 (.13)	359393 (.08)	648405 (.14)	1030830 (.22)	2079620 (.44)
Land Area	40930 (1.00)	503 (.01)	798 (.02)	2243 (.05)	7390 (.18)	29996 (.73)
REGION IV						
Population	42442705 (1.00)	5767158 (.16)	3985872 (.09)	6856991 (.16)	8190581 (.19)	17642103 (.42)
Land Area	379046 (1.00)	4788 (.01)	6069 (.02)	21348 (.06)	83971 (.22)	262888 (.69)



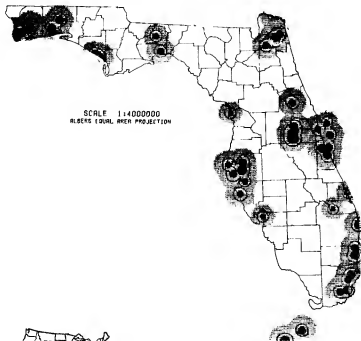
ALABAMA
SCALE 1:2500000
ALBERS EQUAL AREA PROJECTION



DIRECT EFFECTS RISK AREAS

FEMA REGION IV - ALABAMA

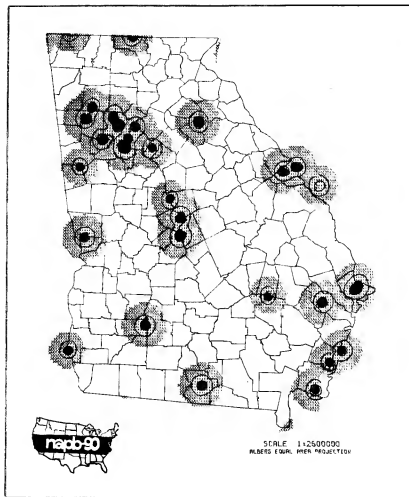
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Ringed Area: Equal to or greater than 2.0 psi
Unringed Area: Equal to or greater than 0.5 psi



DIRECT EFFECTS RISK AREAS

FEMA REGION IV - FLORIDA.

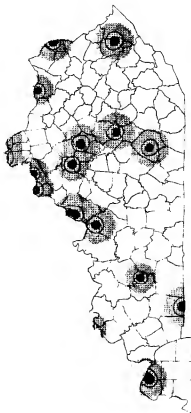
Black Area: Equal to or greater than 5.0 psi
 Ringed Area: Equal to or greater than 2.0 psi
 Unringed Area: Equal to or greater than 0.5 psi



DIRECT EFFECTS RISK AREAS

FEMA REGION IV - GEORGIA

Black Area: Equal to or greater than 5.0 psi
 Ringed Area: Equal to or greater than 2.0 psi
 Unringed Area: Equal to or greater than 0.5 psi



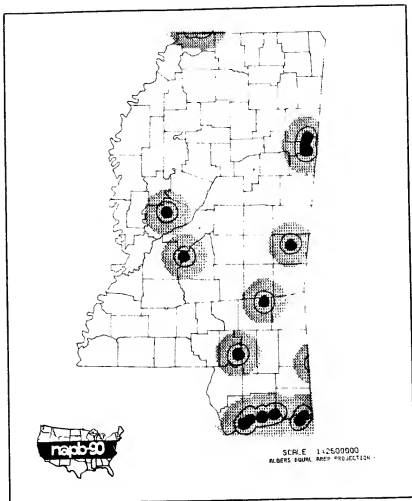
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NEUTRAL AREA PROJECTION



DIRECT EFFECTS RISK AREAS

FEMA REGION IV - KENTUCKY

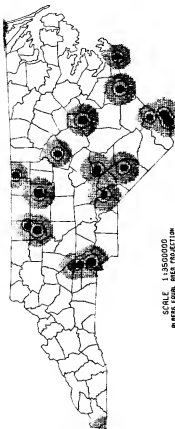
Black Area: Equal to or greater than 5.0 psi
 Ringed Area: Equal to or greater than 2.0 psi
 Unringed Area: Equal to or greater than 0.5 psi



DIRECT EFFECTS RISK AREAS

FEMA REGION IV - MISSISSIPPI

Black Area:	Equal to or greater than 5.0 psi
Ringed Area:	Equal to or greater than 2.0 psi
Unringed Area:	Equal to or greater than 0.5 psi



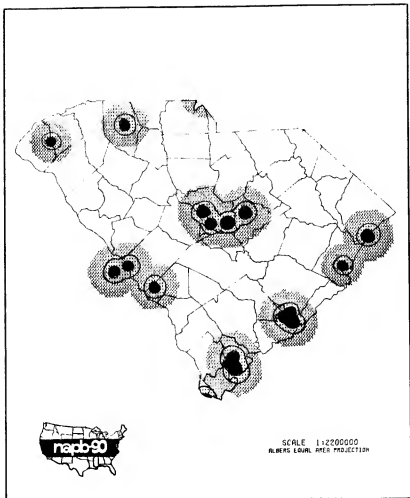
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ALBERS EQUAL AREA PROJECTION



DIRECT EFFECTS RISK AREAS

FEMA REGION IV - NORTH CAROLINA

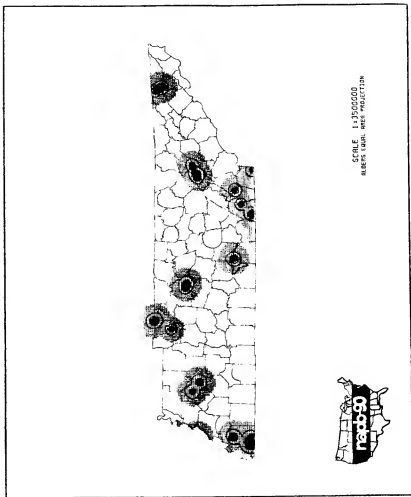
Black Area: Equal to or greater than 5.0 psi
 Ringed Area: Equal to or greater than 2.0 psi
 Unringed Area: Equal to or greater than 0.5 psi



DIRECT EFFECTS RISK AREAS

FEMA REGION IV - SOUTH CAROLINA

Black Area: Equal to or greater than 5.0 psi
 Ringed Area: Equal to or greater than 2.0 psi
 Unringed Area: Equal to or greater than 0.5 psi



DIRECT EFFECTS RISK AREAS

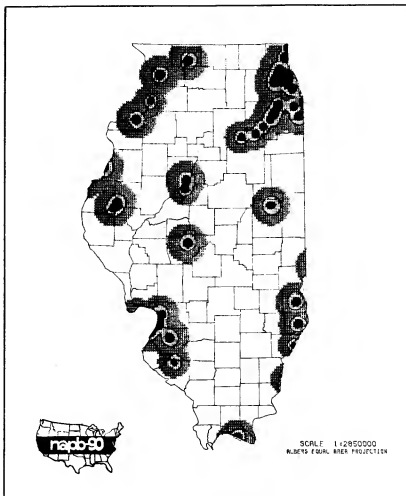
FEMA REGION IV - TENNESSEE

Black Area: Equal to or greater than 5.0 psi
 Ringed Area: Equal to or greater than 2.0 psi
 Unringed Area: Equal to or greater than 0.5 psi

FEMA REGION V -- DIRECT EFFECTS & FIRE RISKS

STATE/DATA	TOTALS	VERY HIGH GT 10 psi	HIGH 5 to 10 psi	MEDIUM 2 to 5 psi	LOW .5 to 2 psi	NONE LT .5 psi
ILLINOIS Population	11557256 (1.00)	2085709 (.18)	1624701 (.14)	3225483 (.28)	1914989 (.17)	2706374 (.23)
Land Area	51596 (1.00)	1275 (.02)	1338 (.03)	4159 (.08)	12929 (.25)	32186 (.62)
INDIANA Population	5499636 (1.00)	783413 (.14)	607437 (.11)	789434 (.14)	1088128 (.20)	2211224 (.41)
Land Area	35963 (1.00)	555 (.02)	683 (.02)	2439 (.07)	10421 (.29)	21865 (.61)
MICHIGAN Population	9030778 (1.00)	1570330 (.17)	1220636 (.14)	1918858 (.21)	1952054 (.22)	2368900 (.26)
Land Area	57019 (1.00)	1042 (.02)	1238 (.02)	4227 (.07)	17869 (.31)	32643 (.57)
MINNESOTA Population	4181231 (1.00)	645927 (.16)	446913 (.11)	589812 (.14)	515383 (.12)	1983196 (.47)
Land Area	79547 (1.00)	413 (.01)	418 (.01)	1333 (.02)	4745 (.06)	72638 (.91)
OHIO Population	10638633 (1.00)	1605297 (.15)	1490643 (.14)	2611992 (.25)	3082059 (.29)	1848642 (.17)
Land Area	41006 (1.00)	878 (.02)	1571 (.04)	4819 (.12)	18690 (.46)	15048 (.37)
WISCONSIN Population	4779553 (1.00)	427685 (.09)	126942 (.03)	557331 (.12)	755110 (.16)	2912485 (.31)
Land Area	54424 (1.00)	302 (.01)	264 (.01)	1243 (.02)	4613 (.08)	48002 (.88)
REGION V Population	45687087 (1.00)	7118361 (.16)	5517272 (.12)	9692910 (.21)	9307723 (.20)	14050821 (.31)
Land Area	323545 (1.00)	4465 (.01)	5512 (.02)	18219 (.06)	69267 (.21)	226082 (.70)

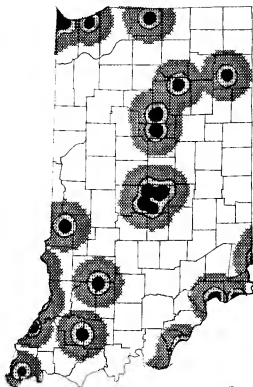
(xxx) Less than 1 percent



DIRECT EFFECTS RISK AREAS

FEMA REGION V - ILLINOIS

Black Area: Equal to or greater than 5.0 psi
Ringed Area: Equal to or greater than 2.0 psi
Unringed Area: Equal to or greater than 0.5 psi



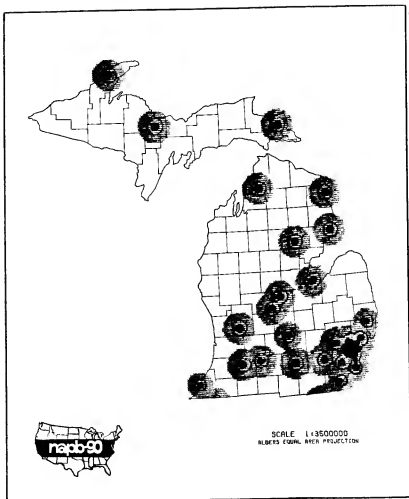
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ALBERS EQUAL AREA PROJECTION



DIRECT EFFECTS RISK AREAS

FEMA REGION V - INDIANA

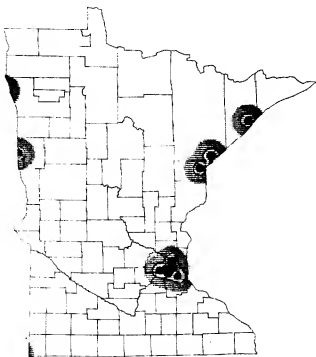
Black Area: Equal to or greater than 5.0 psi
 Ringed Area: Equal to or greater than 2.0 psi
 Unringed Area: Equal to or greater than 0.5 psi



DIRECT EFFECTS RISK AREAS

FEMA REGION V - MICHIGAN

Black Area: Equal to or greater than 5.0 psi
 Ringed Area: Equal to or greater than 2.0 psi
 Unringed Area: Equal to or greater than 0.5 psi

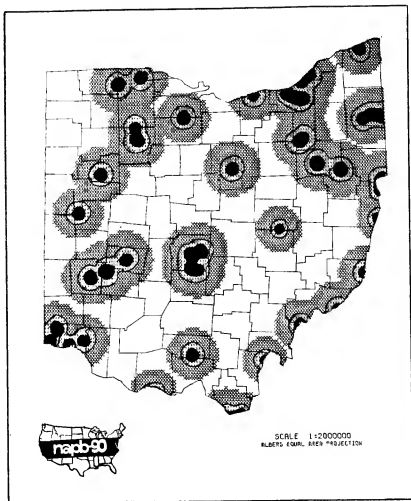


SCALE 1:2500000
ALBERS EQUAL AREA PROJECTION

DIRECT EFFECTS RISK AREAS

FEMA REGION V - MINNESOTA

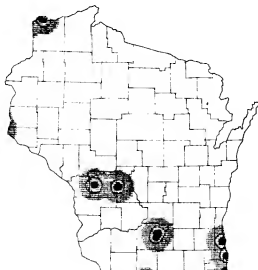
Black Area: Equal to or greater than 5.0 psi
 Ringed Area: Equal to or greater than 2.0 psi
 Unringed Area: Equal to or greater than 0.5 psi



DIRECT EFFECTS RISK AREAS

FEMA REGION V - OHIO

Black Area: Equal to or greater than 5.0 psi
 Ringed Area: Equal to or greater than 2.0 psi
 Unringed Area: Equal to or greater than 0.5 psi



SCALE 1:3500000
ALBERS EQUAL AREA PROJECTION

DIRECT EFFECTS RISK AREAS

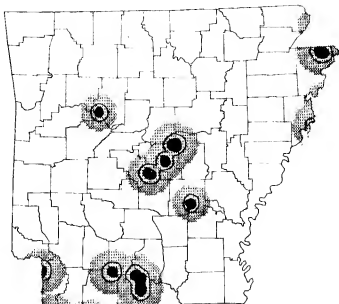
FEMA REGION V - WISCONSIN

Black Area: Equal to or greater than 5.0 psi
 Ringed Area: Equal to or greater than 2.0 psi
 Unringed Area: Equal to or greater than 0.5 psi

FEMA REGION VI - - DIRECT EFFECTS & FIRE RISKS

STATE/DATA	TOTALS	VERY HIGH GT 10 psi	HIGH 5 to 10 psi	MEDIUM 2 to 5 psi	LOW .5 to 2 psi	NONE LT .5 psi
ARKANSAS						
Population	2363641 (1.00)	131262 (.06)	117693 (.13)	294869 (.21)	288032 (.16)	1531985 (.65)
Land Area	52082 (1.00)	265 (xxx)	333 (.01)	1291 (.02)	6009 (.12)	44184 (.85)
LOUISIANA						
Population	4525019 (1.00)	784371 (.17)	806928 (.05)	705903 (.12)	785040 (.19)	1442877 (.32)
Land Area	44520 (1.00)	1095 (.02)	1095 (.02)	3438 (.08)	11998 (.27)	27158 (.61)
NEW MEXICO						
Population	1460783 (1.00)	242269 (.16)	131289 (.18)	363755 (.16)	286246 (.12)	437224 (.30)
Land Area	121336 (1.00)	545 (xxx)	555 (xxx)	2826 (.02)	10331 (.09)	107709 (.89)
OKLAHOMA						
Population	3364919 (1.00)	365265 (.11)	427257 (.09)	634233 (.25)	744544 (.17)	1193520 (.35)
Land Area	68656 (1.00)	661 (.01)	762 (.01)	2962 (.04)	14553 (.21)	49718 (.72)
TEXAS						
Population	16426000 (1.00)	3169088 (.19)	2191289 (.13)	3872412 (.19)	3146160 (.20)	4047051 (.25)
Land Area	261989 (1.00)	2401 (.01)	2603 (.01)	9120 (.03)	37125 (.14)	210470 (.80)
REGION VI						
Population	28140362 (1.00)	4692255 (.17)	3674256 (.13)	5871072 (.21)	5250122 (.19)	8652657 (.31)
Land Area	548583 (1.00)	4703 (.01)	5348 (.01)	19637 (.04)	80016 (.15)	439536 (.80)

(xxx) Less than 1 percent

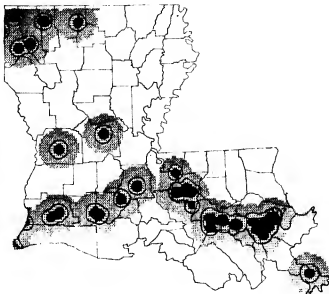


SCALE 1:2500000
ALBERS EQUAL AREA PROJECTION

DIRECT EFFECTS RISK AREAS

FEMA REGION VI - ARKANSAS

Black Area: Equal to or greater than 5.0 psi
 Ringed Area: Equal to or greater than 2.0 psi
 Unringed Area: Equal to or greater than 0.5 psi

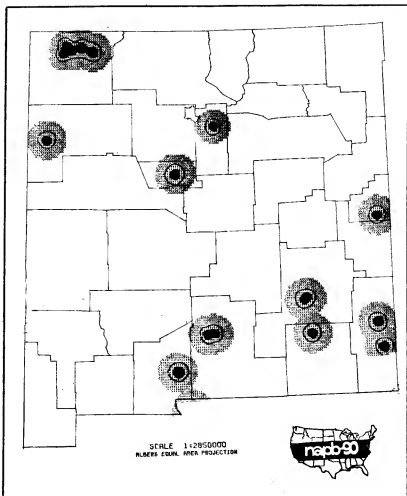


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ALBERS EQUAL AREA PROJECTION

DIRECT EFFECTS RISK AREAS

FEMA REGION VI - LOUISIANA

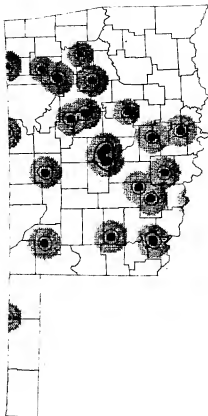
Black Area: Equal to or greater than 5.0 psi
 Ringed Area: Equal to or greater than 2.0 psi
 Unringed Area: Equal to or greater than 0.5 psi



DIRECT EFFECTS RISK AREAS

FEMA REGION VI - NEW MEXICO

Black Area: Equal to or greater than 5.0 psi
 Ringed Area: Equal to or greater than 2.0 psi
 Unringed Area: Equal to or greater than 0.5 psi



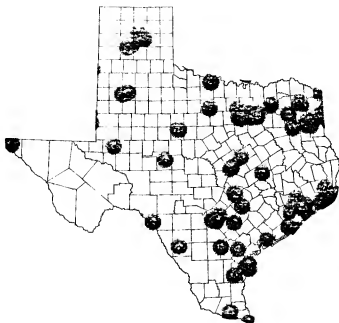
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ALBERTS EQUAL AREA PROJECTION



DIRECT EFFECTS RISK AREAS

FEMA REGION VI - OKLAHOMA

Black Area: Equal to or greater than 5.0 psi
 Ringed Area: Equal to or greater than 2.0 psi
 Unringed Area: Equal to or greater than 0.5 psi



SCALE 1:7000000
ALBERS EQUAL AREA PROJECTION

DIRECT EFFECTS RISK AREAS

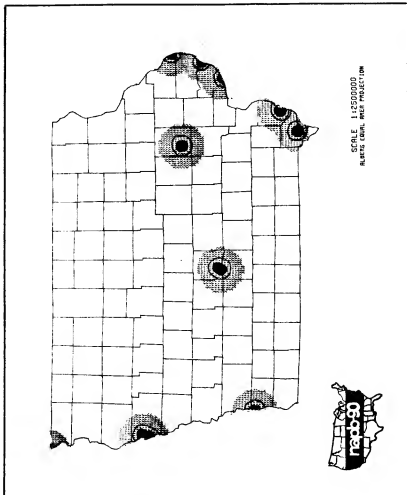
FEMA REGION VI - TEXAS

Black Area: Equal to or greater than 5.0 psi
 Ringed Area: Equal to or greater than 2.0 psi
 Unringed Area: Equal to or greater than 0.5 psi

F E M A R E G I O N V I I - - D I R E C T E F F E C T S & F I R E R I S K S

STATE/DATA	TOTALS	VERY HIGH Gt 10 psi	HIGH 5 to 10 psi	MEDIUM 2 to 5 psi	LOW .5 to 2 psi	NONE LT .5 psi	
IOWA	Population Land Area	2906939 (1.00) 55964 (1.00)	226352 (.08) 249 (xxx)	165728 (.06) 301 (.01)	292060 (.10) 1153 (.02)	338110 (.12) 4783 (.09)	1884699 (.65) 49496 (.88)
KANSAS	Population Land Area	2454933 (1.00) 81792 (1.00)	453042 (.18) 608 (.01)	173379 (.07) 693 (.01)	401889 (.16) 2741 (.03)	541493 (.22) 13420 (.16)	885130 (.36) 64330 (.79)
MISSOURI	Population Land Area	4968558 (1.00) 68576 (1.00)	967727 (.20) 2936 (.04)	603807 (.12) 2571 (.04)	936030 (.19) 6247 (.09)	601981 (.12) 8262 (.13)	1859013 (.37) 48194 (.70)
NEBRASKA	Population Land Area	1614811 (1.00) 76639 (1.00)	171719 (.11) 878 (.01)	78721 (.05) 1148 (.01)	170700 (.11) 3322 (.04)	449803 (.28) 5454 (.07)	743868 (.46) 65837 (.86)
REGION VII	Population Land Area	11925241 (1.00) 282971 (1.00)	1818840 (.15) 4671 (.02)	1021635 (.09) 4713 (.02)	1827679 (.15) 13463 (.05)	1931387 (.16) 31919 (.11)	5325700 (.45) 227857 (.81)

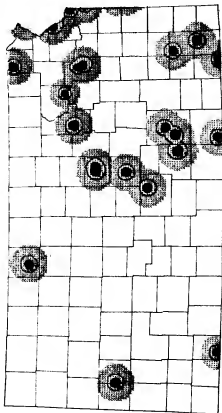
(xxx) Less than 1 percent



DIRECT EFFECTS RISK AREAS

FEMA REGION VII - IOWA

Black Area: Equal to or greater than 5.0 psi
 Ringed Area: Equal to or greater than 2.0 psi
 Unringed Area: Equal to or greater than 0.5 psi



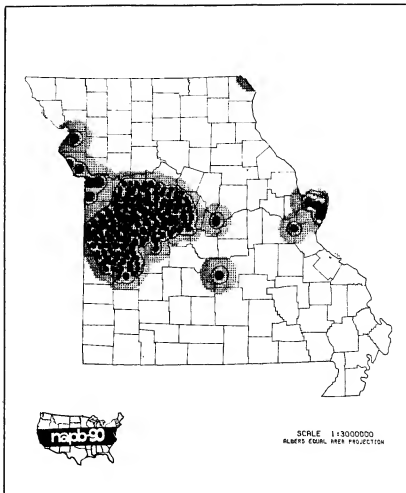
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NAD83 EQUAL AREA PROJECTION



DIRECT EFFECTS RISK AREAS

FEMA REGION VII - KANSAS

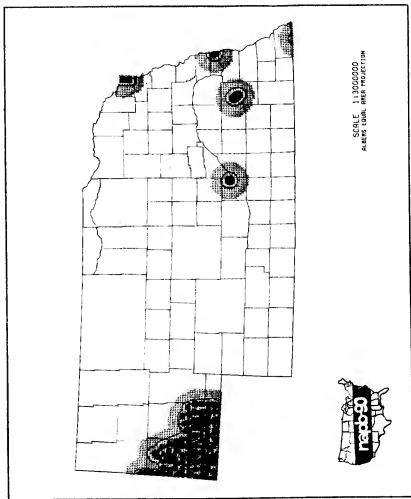
Black Area: Equal to or greater than 5.0 psi
 Ringed Area: Equal to or greater than 2.0 psi
 Unringed Area: Equal to or greater than 0.5 psi



DIRECT EFFECTS RISK AREAS

FEMA REGION VII - MISSOURI

Black Area: Equal to or greater than 5.0 psi
 Ringed Area: Equal to or greater than 2.0 psi
 Unringed Area: Equal to or greater than 0.5 psi



DIRECT EFFECTS RISK AREAS

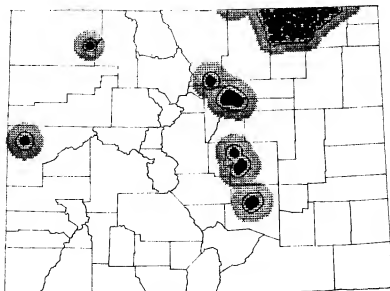
FEMA REGION VII - NEBRASKA

Black Area: Equal to or greater than 5.0 psi
 Ringed Area: Equal to or greater than 2.0 psi
 Unringed Area: Equal to or greater than 0.5 psi

F E M A R E G I O N V I I I - - D I R E C T E F F E C T S & F I R E R I S K S

STATE/DATA	TOTALS	VERY HIGH GT 10 psi	HIGH 5 to 10 psi	MEDIUM 2 to 5 psi	LOW .5 to 2 psi	NONE LT .5 psi
COLORADO						
Population	3250118 (1.00)	757230 (.23)	369050 (.11)	641107 (.20)	648655 (.20)	834076 (.26)
Land Area	103652 (1.00)	883 (.01)	1043 (.01)	2777 (.03)	174 (xxx)	98775 (.95)
MONTANA						
Population	832872 (1.00)	216472 (.27)	72913 (.08)	56999 (.07)	36289 (.05)	450299 (.53)
Land Area	145365 (1.00)	3190 (.02)	3107 (.02)	10943 (.08)	19123 (.13)	109002 (.75)
NORTH DAKOTA						
Population	697576 (1.00)	185802 (.27)	34321 (.04)	84588 (.11)	115679 (.17)	277186 (.40)
Land Area	69344 (1.00)	5581 (.08)	5322 (.08)	9262 (.13)	15770 (.23)	33409 (.48)
SOUTH DAKOTA						
Population	708728 (1.00)	92921 (.13)	27469 (.04)	58215 (.08)	76474 (.11)	453649 (.63)
Land Area	75956 (1.00)	2687 (.04)	2434 (.03)	5321 (.07)	7802 (.10)	57732 (.76)
UTAH						
Population	1698867 (1.00)	332028 (.19)	506954 (.30)	318150 (.19)	243378 (.14)	298357 (.18)
Land Area	82094 (1.00)	349 (xxx)	582 (.01)	1566 (.02)	6676 (.08)	72921 (.89)
WYOMING						
Population	521570 (1.00)	161633 (.31)	51107 (.10)	25544 (.06)	22278 (.04)	261008 (.50)
Land Area	97086 (1.00)	1428 (.01)	1720 (.02)	4581 (.05)	10950 (.11)	78407 (.81)
REGION VIII						
Population	7709731 (1.00)	1746086 (.23)	1061814 (.14)	1184503 (.15)	1143293 (.15)	2574035 (.33)
Land Area	573497 (1.00)	14118 (.02)	14208 (.02)	34450 (.06)	60495 (.11)	450246 (.79)

(xxx) Less than 1 percent

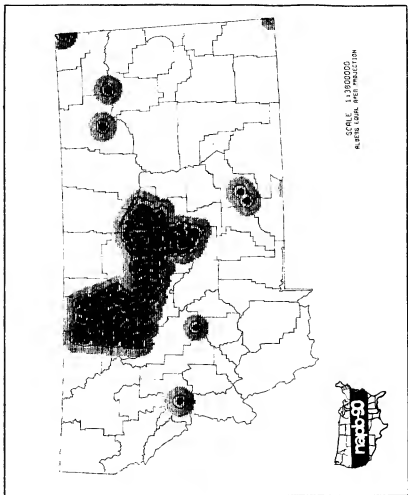


SCALE 1:3000000
METERS EQUAL AREA PROJECTION

DIRECT EFFECTS RISK AREAS

FEMA REGION VIII - COLORADO

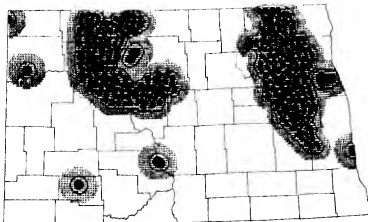
Black Area: Equal to or greater than 5.0 psi
 Ringed Area: Equal to or greater than 2.0 psi
 Unringed Area: Equal to or greater than 0.5 psi



DIRECT EFFECTS RISK AREAS

FEMA REGION VIII - MONTANA

Black Area: Equal to or greater than 5.0 psi
 Ringed Area: Equal to or greater than 2.0 psi
 Unringed Area: Equal to or greater than 0.5 psi

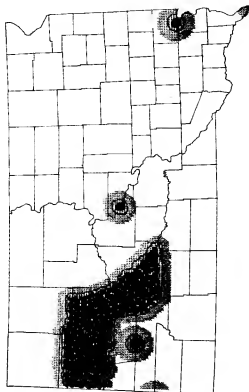


SCALE 1:3000000
ALBERS EQUAL AREA PROJECTION

DIRECT EFFECTS RISK AREAS

FEMA REGION VIII - NORTH DAKOTA

Black Area: Equal to or greater than 5.0 psi
 Ringed Area: Equal to or greater than 2.0 psi
 Unringed Area: Equal to or greater than 0.5 psi



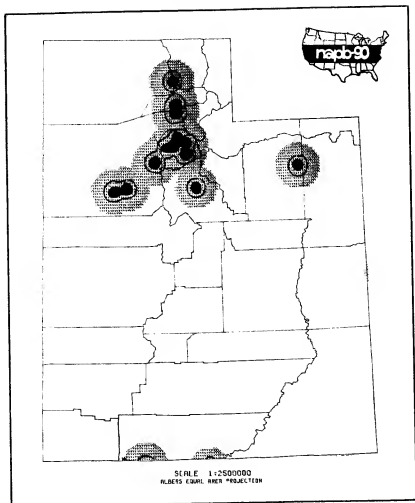
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ALBERS EQUAL AREA PROJECTION



DIRECT EFFECTS RISK AREAS

FEMA REGION VIII - SOUTH DAKOTA

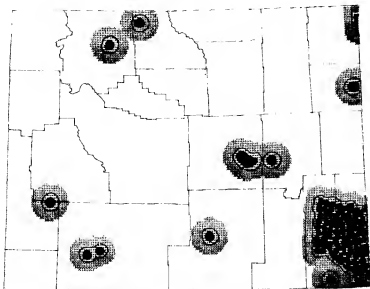
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 Ringed Area: Equal to or greater than 2.0 psi
 Unringed Area: Equal to or greater than 0.5 psi



DIRECT EFFECTS RISK AREAS

FEMA REGION VIII - UTAH

Black Area: Equal to or greater than 5.0 psi
Ringed Area: Equal to or greater than 2.0 psi
Unringed Area: Equal to or greater than 0.5 psi



SCALE 1:3000000
ALBERS EQUAL AREA PROJECTION

DIRECT EFFECTS RISK AREAS

FEMA REGION VIII - WYOMING

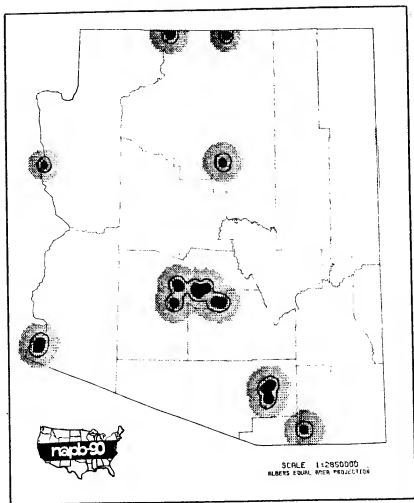
Black Area: Equal to or greater than 5.0 psi
 Ringed Area: Equal to or greater than 2.0 psi
 Unringed Area: Equal to or greater than 0.5 psi

F E M A R E G I O N I X - - D I R E C T E F F E C T S & F I R E R I S K S

STATE/DATA	TOTALS	VERY HIGH Gr 10 psi	HIGH 5 to 10 psi	MEDIUM 2 to 5 psi	LOW .5 to 2 psi	NONE lt .5 psi
ARIZONA						
Population	3138988 (1.00)	583952 (.18)	384090 (.12)	1105668 (.35)	469613 (.15)	595665 (.19)
Land Area	113550 (1.00)	640 (.01)	503 (xxx)	2158 (.02)	7713 (.07)	102536 (.90)
CALIFORNIA						
Population	2610844 (1.00)	8712562 (.33)	4797722 (.03)	6871350 (.26)	3085422 (.12)	2638788 (.10)
Land Area	156279 (1.00)	3550 (.02)	3015 (.02)	9527 (.06)	36501 (.23)	103686 (.66)
HAWAII						
Population	1057270 (1.00)	327778 (.31)	105940 (.10)	186162 (.18)	250400 (.24)	186990 (.17)
Land Area	6427 (1.00)	*	*	*	*	*
NEVADA						
Population	938191 (1.00)	249851 (.27)	159296 (.17)	312581 (.33)	112158 (.12)	104305 (.12)
Land Area	109895 (1.00)	328 (xxx)	365 (xxx)	1402 (xxx)	6226 (.06)	101574 (.92)
SAMOA						
Population	35000 (1.00)	*	*	*	*	*
Land Area	77 (1.00)	*	*	*	*	*
GUAM						
Population	112900 (1.00)	*	*	*	*	*
Land Area	209 (1.00)	*	*	*	*	*
TRUST TERR.						
Population	116149 (1.00)	*	*	*	*	*
Land Area	533 (1.00)	*	*	*	*	*

(xxx) Less than one percent
* Data will be made available separately

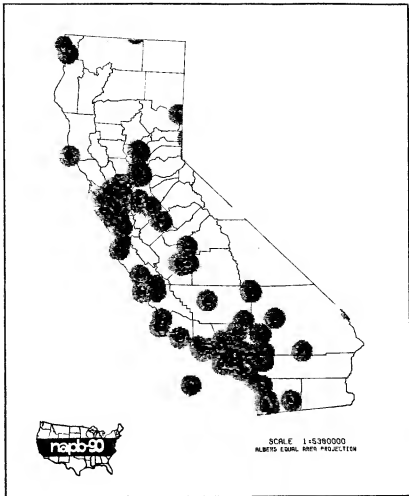
REGION IX						
Population	31504342 (1.00)	9874143 (.31)	5447048 (.17)	8475761 (.27)	3917593 (.12)	3789797 (.09)
Land Area	386970 (1.00)	4518 (.01)	3883 (.01)	13087 (.03)	50440 (.13)	323363 (.84)



DIRECT EFFECTS RISK AREAS

FEMA REGION IX - ARIZONA

Black Area: Equal to or greater than 5.0 psi
Ringed Area: Equal to or greater than 2.0 psi
Unringed Area: Equal to or greater than 0.5 psi



DIRECT EFFECTS RISK AREAS

FEMA REGION IX - CALIFORNIA

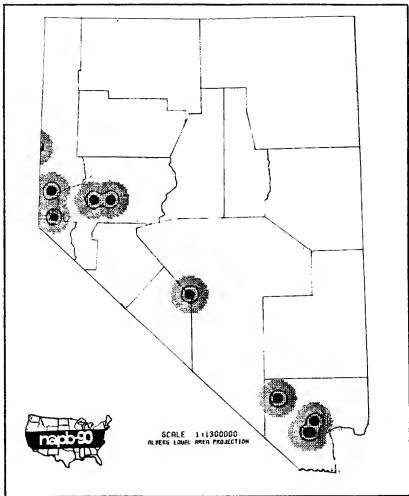
Black Area: Equal to or greater than 5.0 psi
 Ringed Area: Equal to or greater than 2.0 psi
 Unringed Area: Equal to or greater than 0.5 psi

[MAP WILL BE FURNISHED SEPARATELY]

DIRECT EFFECTS RISK AREAS

FEMA REGION IX - HAWAII

Black Area: Equal to or greater than 5.0 psi
Ringed Area: Equal to or greater than 2.0 psi
Unringed Area: Equal to or greater than 0.5 psi



DIRECT EFFECTS RISK AREAS

FEMA REGION IX - NEVADA

Black Area: Equal to or greater than 5.0 psi
 Ringed Area: Equal to or greater than 2.0 psi
 Unringed Area: Equal to or greater than 0.5 psi

[MAP WILL BE FURNISHED SEPARATELY]

DIRECT EFFECTS RISK AREAS

FEMA REGION IX - AMERICAN SAMOA

Black Area: Equal to or greater than 5.0 psi
Ringed Area: Equal to or greater than 2.0 psi
Unringed Area: Equal to or greater than 0.5 psi

[MAP WILL BE FURNISHED SEPARATELY]

DIRECT EFFECTS RISK AREAS

FEMA REGION IX - GUAM

Black Area: Equal to or greater than 5.0 psi
Ringed Area: Equal to or greater than 2.0 psi
Unringed Area: Equal to or greater than 0.5 psi

[MAP WILL BE FURNISHED SEPARATELY]

DIRECT EFFECTS RISK AREAS

FEMA REGION IX - U.S. TRUST TERRITORY

Black Area: Equal to or greater than 5.0 psi
Ringed Area: Equal to or greater than 2.0 psi
Unringed Area: Equal to or greater than 0.5 psi

F E M A R E G I O N X - - D I R E C T E F F E C T S & F I R E R I S K S

STATE/DATA	TOTALS	VERY HIGH GT 10 psi	HIGH 5 to 10 psi	MEDIUM 2 to 5 psi	LOW .5 to 2 psi	NONE LT .5 psi
ALASKA						
Population	534271 (1.00)	38557 (.08)	54897 (.09)	102153 (.19)	55463 (.11)	283201 (.53)
Land Area	570833 (1.00)	*	*	*	*	*
IDaho						
Population	1014218 (1.00)	114528 (.11)	74583 (.07)	108834 (.11)	126655 (.13)	589618 (.58)
Land Area	82414 (1.00)	90 (xxx)	259 (xxx)	836 (.01)	5110 (.06)	76119 (.92)
OREGON						
Population	2683926 (1.00)	351689 (.13)	162186 (.06)	369500 (.14)	527477 (.20)	1273074 (.40)
Land Area	96187 (1.00)	317 (xxx)	318 (xxx)	1375 (.01)	6375 (.07)	87802 (.91)
WASHINGTON						
Population	4402272 (1.00)	1049095 (.24)	516498 (.12)	809564 (.18)	1239731 (.05)	787384 (.18)
Land Area	66512 (1.00)	957 (.01)	937 (.01)	3618 (.05)	15384 (.23)	45616 (.69)
REGION X						
Population	8634750 (1.00)	1553869 (.18)	808164 (.09)	1390051 (.16)	1949326 (.23)	2933340 (.34)
Land Area	815946 (1.00)	1364 (xxx)	1514 (xxx)	5829 (.01)	26869 (.03)	780370 (.96)

(xxx) Less than 1 percent

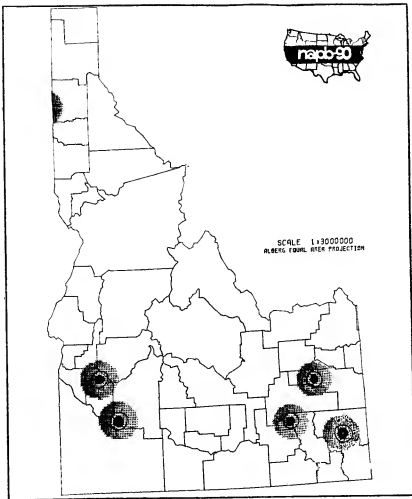
* Data will be made available separately

[MAP WILL BE FURNISHED SEPARATELY]

D I R E C T E F F E C T S R I S K A R E A S

FEMA REGION X - ALASKA

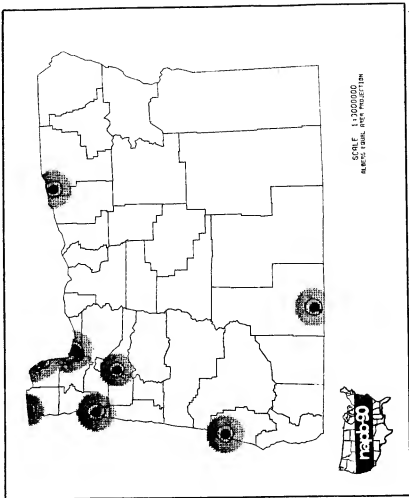
Black Area: Equal to or greater than 5.0 psi
Ringed Area: Equal to or greater than 2.0 psi
Unringed Area: Equal to or greater than 0.5 psi



DIRECT EFFECTS RISK AREAS

FEMA REGION X - IDAHO

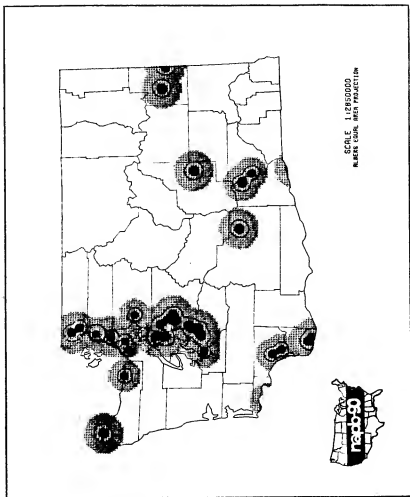
Black Area: Equal to or greater than 5.0 psi
 Ringed Area: Equal to or greater than 2.0 psi
 Unringed Area: Equal to or greater than 0.5 psi



DIRECT EFFECTS RISK AREAS

FEMA REGION X - OREGON

Black Area: Equal to or greater than 5.0 psi
 Ringed Area: Equal to or greater than 2.0 psi
 Unringed Area: Equal to or greater than 0.5 psi



DIRECT EFFECTS RISK AREAS

FEMA REGION X - WASHINGTON

Black Area: Equal to or greater than 5.0 psi
 Ringed Area: Equal to or greater than 2.0 psi
 Unringed Area: Equal to or greater than 0.5 psi

ANNEX A - DIRECT EFFECTS & FIRE RISKS

PART 2. HIGHEST RISK LEVEL RECORDED WITHIN COUNTIES

This part shows county resident population and land area under direct effects and fire risk based upon the highest risk level recorded within the county, regardless of the actual area covered by blast. This data also includes counties which are "risk free" from blast overpressures, i.e., counties which have no blast overpressure or have blast overpressure less than 0.5 psi.

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NATIONAL DIRECT EFFECTS RISK SUMMARY

Estimated 1985 Population: 242,109,419
Land Area: 3,551,226 square miles

FEMA REGION	VERY HIGH RISK GT 10 PSI		HIGH RISK EQ/GT 5PSI LT 10PSI		MEDIUM RISK EQ/GT 2PSI LT 5PSI		LOW/NO* RISK EQ/GT .5PSI LT 2PSI	
	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA
Region I	9 397 810	22 101	206 694	4 540	1 025 945	3 408	1 816 758	31 633
							(688 758	9 688)
							(1 127 971	21 945)*
Region II	19 525 466	18 641	5 734 729	3 850	998 669	9 112	943 560	23 242
							(768 558	8 451)
							(175 002	14 791)*
Region III	18 606 721	43 296	825 473	6 116	1 790 474	13 521	3 838 890	57 614
							(2 307 493	31 393)
							(1 531 397	26 224)*
Region IV	22 990 579	83 093	976 474	11 723	2 403 465	25 471	16 072 187	258 813
							(6 109 444	105 673)
							(9 962 743	153 140)*
Region V	26 087 828	66 623	1 254 413	6 384	4 011 018	28 005	14 333 828	222 533
							(6 300 432	63 473)
							(8 033 396	159 060)*
Region VI	18 774 323	125 298	237 848	5 128	1 653 608	38 036	7 474 583	380 121
							(2 847 548	98 679)
							(4 627 035	281 442)*
Region VII	5 647 754	42 351	379 225	6 244	951 181	10 350	4 967 080	224 026
							(1 054 037	41 287)
							(3 913 043	182 739)*

* Less than 0.5 psi overpressure

NATIONAL DIRECT EFFECTS RISK SUMMARY (Continued)

FEMA REGION	VERY HIGH RISK		HIGH RISK		MEDIUM RISK		LOW/NO* RISK	
	GT 10 PSI POPULATION	AREA	EQ/GT 5PSI LT POPULATION	AREA	EQ/GT 2PSI LT POPULATION	AREA	EQ/GT .5PSI LT POPULATION	AREA
Region VIII	4 772 181	192 611	469 653	13 816	132 289	25 513	1 944 608 (683 017 (1 261 591	341 557 69 607) 271 950)*
Region IX	27 408 451	191 318	---	---	1 354 248	24 772	1 420 324 (785 485 (634 839	163 940 34 838) 129 132)*
Region X	5 245 042	62 730	67 460	1 209	701 483	10 305	2 086 494 (653 506 (1 432 988	170 374 35 725) 134 649)*
NATIONAL	158 456 155	848 062	10 151 969	59 010	15 022 380	188 493	58 478 645 (22 198 278 (36 280 367	2 455 661 499 814) 1 956 847)*

*Less than .5 psi overpressure

F E M A R E G I O N I - - D I R E C T E F F E C T S R I S K S U M M A R Y

Estimated 1985 Population: 12,320,207
Land Area: 61,682 square miles

STATE	VERY HIGH RISK		HIGH RISK		MEDIUM RISK		LOW/NO* RISK	
	GT 10 PSI POPULATION	AREA	EQ/GT 5PSI LT 10PSI POPULATION	AREA	EQ/GT 2PSI LT 5PSI POPULATION	AREA	EQ/GT .5PSI LT 2PSI POPULATION	AREA
Connecticut	2 775 954	3 062	---	---	---	---	389 507	1 810
							(389 507	1 810)
Maine	637 184	12 292	18 065	3 986	100 112	477	405 517	14 240
							(230 026	7 074)
Massachusetts	4 630 548	3 604	141 781	528	655 822	1 514	175 491	7 166)*
							(75 324	851
							(69 254	804)
New Hampshire	311 943	1 575	---	---	197 424	1 306	(6 070	47)*
							(481 070	6 111)*
Rhode Island	918 987	1 028	46 848	26	---	---	(---	---
							(---	---
Vermont	123 194	540	---	---	72 587	1 511	(338 704	7 221)
							(338 704	7 221)*

TOTAL REGION I 9 397 810 22 101 206 694 4 540 1 025 945 3 408 1 816 758 31 633
(688 787 9 688)
(1 127 971 21 945)*

* Less than .5 psi overpressure

STATE OF CONNECTICUT -- DIRECT EFFECTS RISK

Estimated 1985 Population: 3,165,461
Land Area: 4,872 square miles

COUNTY	VERY HIGH RISK		HIGH RISK		MEDIUM RISK		LOW/NO* RISK	
	GT 10 PSI POPULATION	AREA	EQ/GT 5PSI LT POPULATION	AREA	EQ/GT 2PSI LT POPULATION	AREA	EQ/GT .5PSI LT POPULATION	AREA
Fairfield	818 293	632						
Hartford	819 457	739						
Litchfield	.....						
Middlesex	.....						160 885	922
New Haven	771 603	610					133 498	373
New London	246 137	669						
Tolland	120 464	412						
Windham	.....						95 124	515

TOTAL STATE	2 775 954	3 062	---	---	---	---	389 507	1 810
							(389 507	1 810)
							(---	---)*

* Less than .5 psi overpressure

STATE OF MAINE -- DIRECT EFFECTS RISK

Estimated 1985 Population: 1,160,878
Land Area: 30,995 square miles

COUNTY	VERY HIGH RISK		HIGH RISK		MEDIUM RISK		LOW/NO* RISK	
	GT 10 PSI POPULATION	AREA	EQ/GT 5PSI LT 10PSI POPULATION	AREA	EQ/GT 2PSI LT 5PSI POPULATION	AREA	EQ/GT .5PSI LT 2PSI POPULATION	AREA
Androscoggin	.....		.....		100 112	477		
Aroostook	88 277	6 721						
Cumberland	225 058	876					29 408	1 699*
Franklin	.....		.....		.....		43 805	1 537
Hancock	.....		.....		.....
Kennebec	.....		.....		.....		112 723	876
Knos	.....		.....		.....		34 496	370*
Lincoln	.....		.....		.....		27 958	458*
Osford	.....		.....		.....		49 771	2 053*
Penobscot	138 771	3 430						
Piscataquis	.....		18 065	3 986				
Sagadahoc	30 689	257					46 806	3 931
Somerset	.....		.....		.....		26 692	730
Waldo	.....		.....		.....		33 858	2 586*
Washington	.....		.....		.....
York	154 389	1 008						

STATE TOTAL	637 184	12 292	18 065	3 986	100 112	477	405 517	14 240
							(230 026	7 074)
							(175 491	7 166)*

* Less than .5 psi overpressure

STATE OF MASSACHUSETTS - - DIRECT EFFECTS RISK

Estimated 1985 Population: 5,503,475
Land Area: 6,497 square miles

COUNTY	VERY HIGH RISK GT 10 PSI		HIGH RISK EQ/GT 5PSI LT 10PSI		MEDIUM RISK EQ/GT 2PSI LT 5PSI		LOW/NO* RISK EQ/GT .5 PSI LT 2PSI	
	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA
Barnstable	147 925	400						
Berkshire	145 110	929						
Bristol	478 662	557						
Dukes							10 337	102
Essex	648 793	495						
Franklin							64 987	702
Hampden	442 601	618						
Hampshire			141 781	528				
Middlesex	1 369 905	822						
Nantucket							6 070	47*
Norfolk	602 837	400						
Plymouth	420 708	655						
Suffolk	660 972	57			655 822	1 514		
Worcester								

TOTAL STATE	4 630 548	3 604	141 781	528	655 822	1 514	75 324	851
							(69 254	804)
							(6 070	47)*

*Less than .5 psi overpressure

STATE OF NEW HAMPSHIRE - - DIRECT EFFECTS RISK

Estimated 1985 Population: 990,437
Land Area: 8,992 square miles

COUNTY	VERY HIGH RISK		HIGH RISK		MEDIUM RISK		LOW/NO* RISK	
	GT 10 PSI POPULATION	AREA	EQ/GT 5PSI LT 10PSI POPULATION	AREA	EQ/GT 2PSI LT 5PSI POPULATION	AREA	EQ/GT .5PSI LT 2PSI POPULATION	AREA
Belknap	.....	.....	.....	.....	.....	.....	46 034	404*
Carroll	.....	.....	.....	.....	.....	.....	30 428	93*
Cheshire	.....	.....	.....	.....	.....	.....	64 644	711*
Coos	.....	.....	.....	.....	.....	.....	33 352	1 805*
Grafton	.....	.....	.....	.....	.....	.....	68 735	1 719*
Hillsborough	299 744	876	.....	.....	.....	.....	.....	.....
Merrimack	.....	.....	.....	.....	103 605	936	.....	.....
Rockingham	212 199	699	.....	.....	.....	.....	.....	.....
Strafford	.....	.....	.....	.....	93 819	370	.....	.....
Sullivan	.....	.....	.....	.....	.....	.....	37 877	540*
TOTAL STATE	311 943	1 575	---	---	197 424	1 306	481 070	6 111
							(---)	(---)
							(481 070	6 111)*

*Less than .5 psi overpressure

STATE OF RHODE ISLAND -- DIRECT EFFECTS RISK

Estimated 1985 Population: 965,471
Land Area: 1,054 square miles

COUNTY	VERY HIGH RISK		HIGH RISK		MEDIUM RISK		LOW/NO* RISK	
	GT 10 PSI POPULATION	AREA	EQ/GT 5PSI LT POPULATION	AREA	EQ/GT 2PSI LT POPULATION	AREA	EQ/GT .5PSI LT POPULATION	AREA
Bristol	.....		46 484	26				
Kent	158 247	172						
Newport	84 236	107						
Providence	578 010	416						
Washington	98 494	333						
TOTAL STATE	918 987	1 028	46 484	26	---	---	---	---

* Less than .5 psi overpressure

STATE OF VERMONT - - DIRECT EFFECTS RISK

Estimated 1985 Population: 534,485
Land Area: 9,272 square miles

COUNTY	VERY HIGH RISK GT 10 PSI		HIGH RISK EQ/GT 5PSI LT 10PSI		MEDIUM RISK EQ/GT 2PSI LT 5PSI		LOW/NO* RISK EQ/GT .5PSI LT 2PSI	
	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA
Addison	31 248	773	.....	.....	.....
Bennington	34 937	676*
Caledonia	26 478	651*
Chittenden	123 194	540	.....	.....	.....	.....	.....	.....
Essex	6 646	666*
Franklin
Grand Isle	36 337	649	.....	.....	.....
Lamoille	5 002	89	.....	17 676	461*
Orange	24 019	690*
Orleans	23 993	697*
Rutland	59 226	932*
Washington	53 831	690*
Windham	38 786	786*
Windsor	53 112	972*

TOTAL STATE	123 194	540	----	72 587	1 511	338 704	7 221
						(----)	(----)
						(338 704	7 221)*

*Less than .5 psi overpressure

F E M A R E G I O N I I - - D I R E C T E F F E C T S R I S K S U M M A R Y

Estimated 1985 Population: 28,626,118
Land Area: 58,436 square miles

STATE	VERY HIGH RISK GT 10 PSI		HIGH RISK EQ/GT 5PSI LE 10PSI		MEDIUM RISK EQ/GT 2PSI LT 5PSI		LOW/NO* RISK EQ/GT .5PSI LT 2PSI	
	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA
New Jersey	4 794 644	4 986	2 316 996	769	439 521	1 713	---	---
							(---	---
							(---	---
New York	14 730 822	13 655	3 427 733	3 081	559 148	7 399	2 943 560	23 242
							(768 558	8 451)
							(175 002	14 791)*
Puerto Rico								
Virgin Islands								
DATA WILL BE FURNISHED SEPARATELY								
DATA WILL BE FURNISHED SEPARATELY								
TOTAL REGION II	19 525 466	18 641	5 734 729	3 850	998 669	9 112	943 560	23 242
							(768 558	8 451)
							(175 002	14 791)*

*Less than .5 psi overpressure

STATE OF NEW JERSEY - - DIRECT EFFECTS RISK

Estimated 1985 Population: 7,551,161
Land Area: 7,468 square miles

COUNTY	VERY HIGH RISK		HIGH RISK		MEDIUM RISK		LOW/NO* RISK	
	GT 10 PSI POPULATION	AREA	EQ/GT 5PSI LT 10PSI POPULATION	AREA	EQ/GT 2PSI LT 5PSI POPULATION	AREA	EQ/GT .5PSI LT 2PSI POPULATION	AREA
Atlantic	202 977	568						
Bergen	.....		843 976	237				
Burlington	382 675	808						
Camden	484 532	223						
Cape May	.....				90 810	263		
Cumberland	.....				133 582	498		
Essex	.....		826 857	127				
Gloucester	209 076	327			46			
Hudson	.....		560 606					
Hunterdon	.....				93 887	427		
Mercer	315 518	227						
Middlesex	623 943	316						
Monmouth	530 780	472						
Morris	420 366	471						
Ocean	382 488	641						
Passaic	457 120	187						
Salen	66 592	338						
Somerset	212 791	305			121 242	525		
Sussex	.....						
Union	505 786	103						
Warren	.....		85 557	359				

STATE TOTAL 4 794 644 4 986 2 316 996 769 439 521 1 713
*Less than .5 psi overpressure (---)
(---)
(---)*

STATE OF NEW YORK -- DIRECT EFFECTS RISK

Estimated 1985 Population: 17,774,143
Land Area: 47,377 square miles

COUNTY	VERY HIGH RISK		HIGH RISK		MEDIUM RISK		LOW/NO* RISK	
	GT 10 PSI POPULATION	AREA	EQ/GT 5PSI LT POPULATION	AREA	EQ/GT 2PSI LT POPULATION	AREA	EQ/GT .5PSI LT POPULATION	AREA
Albany	285 433	524					51 343	1 032*
Allegany								
Broome	1 173 939	42					213 451	712*
Cattaraugus			86 102	1 306				
Cayuga					80 381	695		
Chautauqua					146 038	1 064	92 406	411*
Chemung							50 447	897*
Chenango								
Clinton	80 924	1 043						
Columbia					61 646	638	47 988	500*
Cortland							46 664	1 440*
Delaware	255 073	804						
Dutchess	977 687	1 046						
Erie								
Essex					36 733	1 807	43 604	1 642*
Franklin							56 407	497
Fulton							56 691	495*
Genesee							41 477	648
Greene								
Hamilton							4 806	1 721
Herkimer					67 691	1 417		
Jefferson	89 068	1 273						
Kings	2 259 554	70					24 945	1 283
Lewis								

*Less than .5 psi overpressure

STATE OF NEW YORK (Continued)

COUNTY	VERY HIGH RISK POPULATION	AREA	HIGH RISK POPULATION	AREA	MEDIUM RISK POPULATION	AREA	LOW/NO* RISK POPULATION	AREA
Livingston	.....		.....		.....		58 866	633
Madison	.....		.....		.....		67 406	656
Monroe	713 316	663	.....		.....		53 004	404
Montgomery	.....		.....		.....
Nassau	1 342 306	287	.....		.....
New York	1 463 052	22	.....		.....
Niagara	217 492	526	.....		.....
Oneida	253 963	1 219	.....		.....
Onondaga	464 441	785	.....		.....
Ontario	.....		92 890	644	.....		
Orange	.....		.....		.....		276 972	826*
Orleans	.....		.....		.....		39 425	391*
Oswego	120 383	954	.....		.....		59 978	1 004
Otsego	.....		.....		.....		81 774	231*
Putnam	.....		.....		.....
Queens	1 916 194	108	.....		.....
Rensselaer	152 266	655	.....		.....
Richmond	375 223	59	.....		.....		265 505	175
Rockland	.....		.....		.....		113 496	2 728*
St Lawrence	.....		.....		.....
Saratoga	161 216	810	.....		.....
Schenectady	151 139	206	.....		.....		30 392	624
Schoharie	.....		.....		.....		17 721	329
Schuyler	.....		.....		.....
Seneca	32 754	327	.....		.....

*Less than .5 psi overpressure

STATE OF NEW YORK (Continued)

COUNTY	VERY HIGH RISK		HIGH RISK		MEDIUM RISK		LOW/NO* RISK	
	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA
Steuben	.....	.....	.....	.....	.....	.....	99 365	1 396*
Suffolk	1 322 809	912	.....	.....	.....	.....	67 719	976*
Sullivan	.....	.....	.....	.....	.....	.....	50 776	519*
Tioga	.....	.....	.....	.....	.....	.....	88 051	477
Tompkins	.....	.....	.....	.....	.....	.....	.....	.....
Ulster	.....	.....	163 741	1 131	.....	.....	.....	.....
Warren	55 645	882	.....	.....	56 349	836	.....	.....
Washington	.....	.....	.....	.....	88 815	603	.....	.....
Wayne	.....	.....	.....	.....	.....	.....	.....	.....
Westchester	866 945	438	.....	.....	.....	.....	.....	.....
Wyoming	.....	.....	.....	.....	.....	.....	40 761	595*
Yates	.....	.....	.....	.....	21 495	339	.....	.....

TOTAL STATE	14 730 822	13 655	3 427 733	3 081	559 148	7 399	943 560	23 242
							(768 558	8 451)
							(175 002	14 791)*

*Less than .5 psi overpressure

TERRITORY OF PUERTO RICO - - DIRECT EFFECTS RISK

Estimated 1985 Population: 3,196,520
Land Area: 3,459 square miles

COUNTY	VERY HIGH RISK GT 10 PSI		HIGH RISK EQ/GT 5PSI LT 10PSI		MEDIUM RISK EQ/GT 2PSI LT 5PSI		LOW/NO* RISK EQ/GT .5PSI LT 2PSI	
	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA

DATA WILL BE FURNISHED SEPARATELY

All Counties

TOTAL TERRITORY

()
()*

*Less than .5 psi overpressure

TERRITORY OF THE VIRGIN ISLANDS - - DIRECT EFFECTS RISK

Estimated 1985 Population: 104,294
Land Area: 132 square miles

COUNTY	VERY HIGH RISK GT 10 PSI		HIGH RISK EQ/GT 5PSI LT 10PSI		MEDIUM RISK EQ/GT 2PSI LT 5PSI		LOW/NO* RISK EQ/GT .5PSI LT 2PSI	
	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA
<p>DATA WILL BE FURNISHED SEPARATELY</p>								

All Counties

TOTAL TERRITORY

*Less than .5 psi overpressure

F E M A R E G I O N I I I - - D I R E C T E F F E C T S R I S K S U M M A R Y

Estimated 1985 Population: 25,107,876
Land Area: 120,550 square miles

STATE	VERY HIGH RISK		HIGH RISK		MEDIUM RISK		LOW/NO* RISK	
	GT 10 PSI POPULATION	AREA	EQ/GT 5PSI LT 10PSI POPULATION	AREA	EQ/GT 2PSI LT 5PSI POPULATION	AREA	EQ/GT .5PSI LT 2PSI POPULATION	AREA
Delaware	425 022	991	---	---	---	---	105 207	942
							(---	(000)
Dist. of Columbia	618 906	63	---	---	---	---	(105 207	942)*
							(---	(---)
							(---	(---)*
Maryland	3 863 638	5 462	246 820	703	46 396	871	224 889	2 802
							(105 974	(1 609)
							118 915	1 193)*
Pennsylvania	9 115 680	20 270	338 141	1 033	1 186 856	6 535	1 288 406	17 054
							(960 670	(10 882)
							(297 736	(6 172)*
Virginia	3 482 624	8 573	201 907	3 847	379 967	3 964	1 650 843	23 316
							(882 245	(12 762)
							(769 598	(10 554)*
West Virginia	1 100 851	7 937	38 605	533	159 255	2 151	653 545	13 503
							(412 604	(6 140)
							(240 941	(7 363)*

TOTAL REGION	18 606 721	43 296	825 473	6 116	1 790 474	13 521	3 838 890	57 614
							(2 307 493	(31 393)
							(1 531 397	(26 224)*

*Less than .5 psi overpressure

STATE OF DELAWARE - - DIRECT EFFECTS RISK

Estimated 1985 Population: 530,229
Land Area: 1,933 square miles

COUNTY	VERY HIGH RISK		HIGH RISK		MEDIUM RISK		LOW/NO* RISK	
	GT 10 PSI POPULATION	AREA	EQ/GT 5PSI LT POPULATION	AREA	EQ/GT 2PSI LT POPULATION	AREA	EQ/GT .5PSI LT POPULATION	AREA
Kent	15 037	595						
New Castle	409 985	396						
Sussex	.....	.....	.....	.....	.....	.....	105 207	942*

TOTAL STATE	425 022	991	---	---	---	---	105 207	942
							(---)	(---)
							(105 207	942)*

*Less than .5 psi overpressure

DISTRICT OF COLUMBIA - - DIRECT EFFECTS RISK

Estimated 1985 Population: 618,906
Land Area: 63 square miles

COUNTY	VERY HIGH RISK GT 10 PSI POPULATION	AREA	HIGH RISK EQ/GT 5PSI LT 10PSI POPULATION	AREA	MEDIUM RISK EQ/GT 5PSI LT 2PSI POPULATION	AREA	LOW/NO* RISK EQ/GT .5PSI LT 2PSI POPULATION	AREA
--------	---	------	--	------	---	------	---	------

Dist. of Columbia	618 906	63						
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TOTAL DISTRICT	618 906	63	---	---	---	---	(---)	(---)
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*Less than .5 psi overpressure

STATE OF MARYLAND -- DIRECT EFFECTS RISK

Estimated 1985 Population: 4,381,743

Land Area: 9,838 square miles

COUNTY	VERY HIGH RISK GT 10 PSI		HIGH RISK EQ/GT 5PSI LT 10PSI		MEDIUM RISK EQ/GT 2PSI LT 5PSI		LOW/NO* RISK EQ/GT .5PSI LT 2PSI	
	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA
Allegany	76 002	421						
Anne Arundel	393 425	419						
Baltimore	677 372	598						
Calvert	40 418	213						
Caroline							23 715	321
Carroll			106 853	452				
Cecil	66 776	359						
Charles	84 030	452			29 717	593		
Dorchester								
Frederick	126 295	663						
Garrett							26 913	657
Harford	152 156	447						
Howard			139 967	251				
Kent					16 679	278		
Montgomery	635 241	495						
Prince Georges	678 149	487						
Queen Annes							28 229	372
St Marys	64 355	373					18 515	339*
Somerset							27 117	259
Talbot								
Washington	111 651	455					66 361	379*
Wicomico							34 039	475*
Worcester								
Baltimore City	757 768	80						
TOTAL STATE	3 863 638	5 462	246 820	703	46 396	871	224 889	2 802
							(105 974	1 609)
							(118 915	1 193)*

* Less than .5 psi overpressure

STATE OF PENNSYLVANIA -- DIRECT EFFECTS RISK

Estimated 1985 Population: 11,909,083
Land Area: 44,892 square miles

COUNTY	VERY HIGH RISK GT 10 PSI POPULATION	HIGH RISK EQ/GT 5PSI LT 10PSI POPULATION	MEDIUM RISK EQ/GT 2PSI LT 5PSI POPULATION	LOW/NO* RISK EQ/GT .5PSI LT 2PSI POPULATION
Adams	68 459	521		
Allegheny	1 399 652	727		
Armstrong	83 324	646		
Beaver	197 808	436		
Bedford				48 356 1 017
Berks	318 305	861		
Blair				133 813 527
Bradford				64 199 1 152*
Bucks	515 874	610		
Butler	152 040	789		
Cambria				175 533 691
Cameron				6 596 398*
Carbon	54 170	385		
Centre	114 856	1 106		
Chester	339 008	758		
Clarion	42 996	607		
Clearfield				84 733 1 149
Clinton				39 156 892
Columbia	61 778	486		
Crawford				89 061 1 011*
Cumberland	186 988	547		
Dauphin	236 650	528		
Delaware	550 418	184		
Elk				37 425 830*
Erie	282 674	804		

* Less than .5 psi overpressure

STATE OF PENNSYLVANIA (Continued)

COUNTY	VERY HIGH RISK POPULATION	AREA	HIGH RISK POPULATION	AREA	MEDIUM RISK POPULATION	AREA	LOW/NO* RISK POPULATION	RISK AREA
Payette	159 070	794					5 018	428*
Forest								
Franklin	116 866	774					13 721	437
Fulton								
Greene	41 362	577						
Huntingdon							42 811	877
Indiana	93 550	829						
Jefferson	49 051	656					19 980	392*
Juniata								
Lackawanna	222 969	461						
Lancaster	386 020	952						
Lawrence					105 403	363	111 919	363
Lebanon								
Lehigh	277 519	348			334 652	891		
Luzerne								
Lycoming	116 783	1 237						
McKean	48 882	979			126 574	672	46 580	413
Merger								
Mifflin					79 149	609		
Monroe								
Montgomery	662 853	486					17 066	131
Montour								
Northampton	232 130	376					100 144	461
Northumberland								
Berry					38 081	557		
Philadelphia	1 636 321	136					21 143	551*
Pike							18 490	1 081*
Potter								
Schuylkill					158 879	781	35 824	329*
Snyder								

*Less than .5 psi overpressure

STATE OF PENNSYLVANIA (Continued)

COUNTY	VERY HIGH RISK POPULATION	AREA	HIGH RISK POPULATION	AREA	MEDIUM RISK POPULATION	AREA	LOW/NO* RISK POPULATION	AREA
Somerset	.....	.....	.....	.....	82 007	1 073	.....	.....
Sullivan	.....	.....	.....	.....	.....	.....	6 159	451
Susquehanna	.....	.....	.....	.....	.....	.....	39 233	826
Tioga	.....	.....	.....	.....	.....	.....	40 093	1 131
Union	.....	.....	.....	.....	.....	.....	33 796	317
Venango	64 445	679	.....	.....	.....	.....	.....	.....
Warren	47 707	885	.....	.....	.....	.....	.....	.....
Washington	.....	.....	.....	.....	217 162	958	.....	.....
Wayne	.....	.....	.....	.....	38 414	731	.....	.....
Westmoreland	.....	.....	385 141	1 033	.....	.....	.....	.....
Wyoming	.....	.....	.....	.....	.....	.....	27 557	399
York	324 687	906	.....	.....	.....	.....	.....	.....

TOTAL STATE	9 115 680	20 270	338 141	1 033	1 186 856	6 535	1 288 406	17 054
							(960 670	10 882)
							(297 736	6 172)*

*Less than .5 psi overpressure

STATE OF VIRGINIA -- DIRECT EFFECTS RISK

Estimated 1985 Population: 5,715,659
Land Area: 39,700 square miles

COUNTY	VERY HIGH RISK GT 10 PSI		HIGH RISK EQ/GT 5PSI LT 10PSI		MEDIUM RISK EQ/GT 2PSI LT 5PSI		LOW/NO* RISK EQ/GT .5PSI LT 2PSI	
	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA
Accomack	.....		.....		30 877	476	59 605	725
Albemarle	.....		.....		.....		13 541	446
Alleghany	.....		.....		.....		8 247	357
Amelia	.....		.....		.....		.....
Amherst	.....		29 207	478	.....		.....
Appomattox	.....		.....		.....		12 380	336
Arlington	154 597	26	.....		.....		.....
Augusta	54 869	989	.....		.....		5 302	537*
Bath	.....		.....		.....		.....
Bedford	.....		37 379	747	.....		.....
Bland	.....		.....		.....		6 584	359
Botetourt	23 987	545	.....		.....		16 369	563
Brunswick	.....		.....		.....		37 878	504*
Buchanan	.....		.....		.....		11 972	583*
Buckingham	.....		.....		.....		.....
Campbell	.....		46 194	505	.....		.....
Caroline	18 878	536	.....		.....		28 517	478
Carroll	.....		.....		.....		.....
Charles City	.....		6 751	181	.....		11 840	476*
Charlotte	.....		.....		.....		.....
Chesterfield	164 500	434	.....		.....		.....
Clarke	10 212	178	.....		.....		4 029	330
Craig	.....		.....		.....		23 367	382
Calpeper	.....		.....		.....		7 883	300*
Cumberland	.....		.....		.....		.....

*Less than .5 psi overpressure

STATE OF VIRGINIA (Continued)

COUNTY	VERY HIGH RISK POPULATION	AREA	HIGH RISK POPULATION	AREA	MEDIUM RISK POPULATION	AREA	LOW/MO* RISK POPULATION	RISK AREA
Dickenson	20 223	331*
Dinwiddie	21 091	507	8 754	263*
Essex	692 187	393	.....	.....	.....	.....	.....	.....
Fairfax	40 110	651	.....	.....	.....	.....	.....	.....
Fauquier
Floyd	11 749	381	.....	.....
Fluvanna	10 519	290*
Franklin	37 107	603
Frederick	35 630	415
Giles	17 799	362	.....	.....
Gloucester	25 841	225
Goochland	12 676	281
Grayson	16 832	446*
Greene	8 522	157*
Greensville	10 082	300*
Halifax	29 663	816	.....	.....	.....	.....
Hanover	52 693	460	.....	.....
Henrico	195 226	238	.....	.....	.....	.....	56 311	382*
Henry	2 797	416*
Highland
Isle of Wight	25 553	319	.....	.....	.....	.....
James City	25 364	153	.....	.....	.....	.....	5 897	317*
King & Queen	11 204	180
King George	9 888	278
King William
Lancaster	10 760	133*
Lee	27 010	437*
Loudoun	63 985	521	.....	.....	.....	.....	.....	.....
Louisiana	19 918	497	.....	.....	.....	.....	.....	.....
Lunenburg	12 155	432	.....	.....

*Less than .5 psi overpressure

STATE OF VIRGINIA (Continued)

COUNTY	VERY HIGH RISK POPULATION	AREA	HIGH RISK POPULATION	AREA	MEDIUM RISK POPULATION	AREA	LOW/NO* RISK POPULATION	AREA
Madison		10 609	322*
Mathews		8 623	87
Mecklenburg		27 798	616*
Middlesex		8 286	134*
Montgomery	65 379	390	.....		.....
Nelson		12 336	475		
New Kent		10 111	213
Northampton		14 097	226		
Northumberland		9 918	185*
Nottoway	14 182	317	.....		.....
Orange		19 053	342
PAGE		19 593	313*
Patrick		17 739	481
Pittsylvania		66 604	995
Powhatan		13 752	261
Prince Edward		16 928	354
Prince George	26 007	266	.....		.....
Prince William	169 165	339	.....		.....
Pulaski	34 978	318	.....		.....		6 117	267
Rappahannock			
Richmond		6 816	193*
Roanoke		74 101	251
Rockbridge		18 123	603
Rockingham		53 179	865
Russell		33 160	479
Scott		25 669	536		
Shenandoah		28 403	512*
Smyth		33 437	452*
Southampton		19 089	603*
Spotsylvania	36 716	404	.....		.....

*Less than .5 psi overpressure

STATE OF VIRGINIA (Continued)

COUNTY	VERY HIGH RISK POPULATION	VERY HIGH RISK AREA	HIGH RISK POPULATION	HIGH RISK AREA	MEDIUM RISK POPULATION	MEDIUM RISK AREA	LOW/NO* RISK POPULATION	LOW/NO* RISK AREA
Stafford		48 799	271	.....		10 226	492
Surry	6 288	281	.....		.....		.....
Sussex		51 785	520	.....		22 363	217*
Tazewell		47 631	563*
Warren		14 279	227
Washington		45 748	405*
Westmoreland		25 624	464*
Wise	
Wythe	
York	40 171	113	.....		.....		.....
Alexandria	107 977	15	.....		.....		6 277	7
Bedford		18 401	12*
Bristol		6 414	3*
Buena Vista		40 757	10*
Charlottesville	
Chesapeake	128 906	340	.....		.....		4 803	3*
Clifton Forge	
Colonial Heights		17 613	8	.....		7 492	4*
Covington		44 426	17*
Danville	
Emporia		4 822	2*
Fairfax	
Falls Church		9 547	2	.....		7 175	4*
Franklin		19 356	6
Fredericksburg		6 507	8*
Galax	
Hampton	126 828	51	.....		.....		26 543	6*
Harrisonburg	
Hopewell	24 495	10	.....		.....		6 774	2*
Lexington	

*Less than .5 psi overpressure

STATE OF VIRGINIA (Continued)

COUNTY	VERY HIGH RISK POPULATION	VERY HIGH RISK AREA	HIGH RISK POPULATION	HIGH RISK AREA	MEDIUM RISK POPULATION	MEDIUM RISK AREA	LOW/NO* RISK POPULATION	RISK AREA
Lynchburg	67 430	49					25 643	8
Manassas							6 524	2*
Manassas Park							18 264	11*
Martinsville								
Newport News	159 965	65						
Norfolk	282 850	53					4 446	7*
Norton								
Petersburg	40 714	23						
Poquoson	10 073	17						
Portsmouth	108 802	30						
Radford	13 415	7						
Richmond	219 010	60			100 799	43	24 293	14
Roanoke							7 353	5*
Salem								
South Boston								
Staunton							21 871	8
Suffolk					49 070	409		
Virginia Beach	320 264	256						
Waynesboro	15 194	8						
Williamsburg					11 161	5		
Winchester							20 561	9
TOTAL STATE	3 482 624	8 573	201 907	3 847	379 967	3 964	1 650 843	23 316
							(882 245	12 762)
							(768 598	10 554)*

*Less than .5 psi overpressure

STATE OF WEST VIRGINIA - - DIRECT EFFECTS RISK

Estimated 1985 Population: 1,952,256

Land Area: 24,124 square miles

COUNTY	VERY HIGH RISK		HIGH RISK		MEDIUM RISK		LOW/NO* RISK	
	GT 10 PSI POPULATION	AREA	EQ/GT 5PSI LT POPULATION	AREA	EQ/GT 2PSI LT POPULATION	AREA	EQ/GT 5PSI LT POPULATION	AREA
Barbour	.....		.....		16 575	343		
Berkeley	50 737	322	.....		.....		30 926	503
Boone	.....		.....		.....		14 867	513*
Branton	.....		.....		.....
Brocke	29 855	90	.....		.....
Cabell	105 480	282	.....		.....		8 754	280*
Calhoun	.....		.....		.....		7 728	321
Clay	.....		.....		11 636	346	56 777	667
Dodridge	.....		.....		.....		8 570	340*
Fayette	.....		.....		.....		16 044	644*
Gilmer	.....		.....		.....		10 750	585*
Grant	10 700	480	.....		.....		26 271	464
Greenbrier	36 418	1 025	.....		.....
Hampshire	.....		.....		.....
Hancock	39 360	85	.....		.....
Hardy	.....		.....		.....
Harrison	77 827	417	.....		.....
Jackson	.....		.....		.....
Jefferson	32 646	209	.....		.....
Xanawha	225 530	901	.....		.....
Lewis	.....		.....		.....		18 828	389
Lincoln	23 898	439	.....		.....		51 109	456*
Logan	.....		.....		.....
McDowell	46 772	535	.....		.....
Marion	64 570	312	.....		.....

* Less than .5 psi overpressure

STATE OF WEST VIRGINIA (Continued)

COUNTY	VERY HIGH RISK		HIGH RISK		MEDIUM RISK		LOW/NO* RISK	
	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA
Marshall	40 688	305						
Mason	26 520	433						
Mercer	74 229	420						
Mingo	27 657	329						
Morgan								
Nicholas								
Ohio					60 308	106		
Pendleton								
Pleasants	7 959	131						
Pocahontas								
Preston								
Putnam	40 735	346						
Raleigh								
Randolph								
Ritchie								
Roane					15 630	484		
Summers								
Taylor			16 499	174				
Tucker					8 759	421		
Tyler					11 013	258		
Upshur								
Wayne	46 385	508						

*Less than .5 psi overpressure

STATE OF WEST VIRGINIA (Continued)

COUNTY	VERY HIGH RISK		HIGH RISK		MEDIUM RISK		LOW/NO* RISK	
	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA
Webster	.....	.....	.....	.....	.....	.....	11 609	556*
Wetzel	.....	.....	22 106	359	.....	.....	.....	.....
Wirt	.....	.....	.....	.....	.....	.....	5 281	235*
Wood	92 885	368	.....	.....	.....	.....	.....	.....
Wyoming	.....	.....	.....	.....	35 334	502	.....	.....
TOTAL STATE	1 100 851	7 937	38 605	533	159 255	2 151	653 545	13 503
							(412 604	6 140)
							(240 941	7 363)*

* Less than .5 psi overpressure

FEMA REGION IV -- DIRECT EFFECTS RISK SUMMARY

Estimated 1985 population: 42,442,705

Land Area: 379,046 square miles

STATE	VERY HIGH RISK		HIGH RISK		MEDIUM RISK		LOW/NO* RISK	
	GT 10 PSI POPULATION	AREA	EQ/GT 5PSI LT 10PSI POPULATION	AREA	EQ/GT 2PSI LT 5PSI POPULATION	AREA	EQ/GT .5PSI LT 2PSI POPULATION	AREA
Alabama	2 097 642	11 466	47 012	622	293 160	4 514	1 521 331	34 137
							(838 407	16 789)
							(582 924	17 348)*
Florida	8 793 061	22 226	---	---	302 800	3 132	2 787 465	38 039
							(1 449 745	21 841)
							(1 337 720	16 198)*
Georgia	3 233 308	9 311	371 511	4 297	395 251	4 824	1 929 163	39 685
							(859 567	16 431)
							(1 069 596	23 254)*
Kentucky	1 555 778	7 020	106 002	936	312 507	2 083	1 755 859	29 550
							(501 871	11 122)
							(1 153 988	18 428)*
Mississippi	1 034 591	8 037	39 226	1 093	149 393	3 214	1 393 923	34 830
							(278 077	7 963)
							(1 115 846	26 867)*
North Carolina	2 342 278	10 017	---	---	809 177	4 625	3 082 319	34 201
							(1 133 455	10 002)
							(1 948 864	24 001)*
South Carolina	1 384 092	8 113	199 592	2 058	32 178	1 145	1 727 560	18 891
							(1 079 509	10 118)
							(648 051	8 773)*
Tennessee	2 459 809	6 849	213 131	2 717	108 999	1 934	1 874 577	29 430
							(888 913	11 507)
							(985 664	17 923)*
TOTAL REGION IV	22 990 579	83 039	976 474	11 723	2 403 465	25 471	16 072 187	258 813
							(6 109 444	105 673)
							(9 962 743	153 140)

*Less than .5 psi overpressure

STATE OF ALABAMA - - DIRECT EFFECTS RISK

Estimated 1985 Population: 3,959,145
Land Area: 50,739 square miles

COUNTY	VERY HIGH RISK		HIGH RISK		MEDIUM RISK		LOW/NO* RISK	
	CT 10 PSI POPULATION	AREA	EQ/GT 5PSI LT POPULATION	AREA	EQ/GT 2PSI LT POPULATION	AREA	EQ/GT .5PSI LT POPULATION	AREA
Autauga							33 760	597
Baldwin					88 981	1 590		
Barbour							25 494	884*
Bibb							16 836	625
Blount							37 155	643
Bullock							10 624	625*
Butler							22 263	779*
Calhoun	127 200	611					40 557	596
Chambers							19 540	553*
Cherokee								
Chilton							31 425	695*
Choctaw							16 995	909*
Clark					28 781	1 203		
Clay							13 582	605
Cleburne							12 925	561
Coffee	40 578	680						
Colbert							53 878	589*
Conecuh							15 464	854*
Coosa							11 336	657
Covington							37 040	1 038
Crenshaw							13 832	611*
Cullman							64 229	738
Dale	45 314	561						
Dallas							55 090	975*
De Kalb							55 080	778

*Less than .5 psi overpressure

STATE OF ALABAMA (Continued)

COUNTY	VERY HIGH RISK		HIGH RISK		MEDIUM RISK		LOW/NO* RISK	
	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA
Elmore		47 012	622	.....		37 656	x 951
Escambia		103 697	x 542
Etowah		19 147	x 630
Fayette		28 748	643*
Franklin	
Geneva		23 783	578
Greene		11 243	631
Hale		15 065	661*
Henry		15 326	557
Houston	79 172	577	.....		.....		.....
Jackson	51 402	1 069	.....		.....		.....
Jefferson	671 808	1 119	.....		.....		16 420	605
Lamar		81 917	661*
Lauderdale		31 671	693*
Lawrence	
Lee		79 209	609	.....
Limestone		47 639	559	.....
Louises		13 093	714
Macon		25 901	614*
Madison	213 250	806	.....		.....		.....
Marengo		24 957	982*
Marion		31 414	743*
Marshall		69 502	567*
Mobile	328 158	1 238	.....		.....		.....
Monroe		22 468	1 019*

*Less than .5 psi overpressure

STATE OF ALABAMA (Continued)

COUNTY	VERY HIGH RISK POPULATION	AREA	HIGH RISK POPULATION	AREA	MEDIUM RISK POPULATION	AREA	LOW/NO* RISK POPULATION	AREA
Montgomery	206 993	793						
Morgan	94 796	575						
Perry							15 045	719*
Pickens							21 915	890
Pike							28 106	672
Randolph								
Russell							20 236	585
St Clair					48 550	634		
Shelby	75 418	800					44 539	646
Sumter							17 202	907*
Talladega	77 228	753						
Tallapoosa							39 107	701*
Tuscaloosa							139 201	1 336
Walker	68 882	803						
Washington	17 443	1 081						
Wilcox							15 322	883*
Winston							21 545	614
TOTAL STATE	2 097 642	11 466	47 012	622	293 160	4 514	1 521 331	34 137 (838 407 16 789) (682 924 17 348)*

*Less than .5 psi overpressure

STATE OF FLORIDA - - DIRECT EFFECTS RISK

Estimated 1985 Population: 11,883,346
Land Area: 63,397 square miles

COUNTY	VERY HIGH RISK		HIGH RISK		MEDIUM RISK		LOW/NO* RISK	
	GT 10 PSI POPULATION	AREA	EQ/GT 5PSI LT 10PSI POPULATION	AREA	EQ/GT 2PSI LT 5PSI POPULATION	AREA	EQ/GT .5PSI LT 2PSI POPULATION	AREA
Alachua	.....	.....	.....	.....	.....	.....	789 260	903*
Baker	.....	.....	.....	.....	.....	.....	17 591	585*
Bay	.....	.....	.....	.....	141 180	758	.....	.....
Bradford	.....	.....	.....	.....	.....	.....	23 983	293
Brevard	343 585	995	.....	.....	.....	.....	.....	.....
Broward	1 112 075	1 211	.....	.....	.....	.....	9 556	568*
Calhoun	.....	.....	.....	.....	.....	.....	.....	.....
Charlotte	79 404	690	.....	.....	.....	.....	.....	.....
Citrus	78 546	629	.....	.....	.....	.....	.....	.....
Clay	84 793	592	.....	.....	.....	.....	.....	.....
Collier	.....	.....	.....	.....	.....	.....	.....	.....
Columbia	.....	.....	.....	.....	.....	.....	116 981	1 994*
Dade	1 726 021	1 995	.....	.....	.....	.....	39 947	797*
De Soto	.....	.....	.....	.....	.....	.....	21 295	636
Dixie	.....	.....	.....	.....	.....	.....	9 476	701*
Duval	623 035	776	.....	.....	.....	.....	.....	.....
Escambia	260 730	661	.....	.....	.....	.....	16 816	491
Flagler	.....	.....	.....	.....	.....	.....	8 343	545
Franklin	.....	.....	.....	.....	.....	.....	43 693	518
Gadsden	.....	.....	.....	.....	.....	.....	.....	.....
Gilchrist	.....	.....	.....	.....	.....	.....	7 267	354*
Glades	.....	.....	.....	.....	.....	.....	6 765	763*
Gulf	.....	.....	.....	.....	.....	.....	11 349	559
Hamilton	.....	.....	.....	.....	.....	.....	9 342	517*
Hardee	.....	.....	.....	.....	.....	.....	20 818	637*

*Less than .5 psi overpressure

STATE OF FLORIDA (Continued)

COUNTY	VERY HIGH RISK POPULATION	AREA	HIGH RISK POPULATION	AREA	MEDIUM RISK POPULATION	AREA	LOW/NO* RISK POPULATION	AREA
.....	.....	.....	.....	.....	.....	.....	22 565	1 163*
.....	.....	.....	.....	.....	.....	.....	74 901	477*
.....	.....	.....	.....	.....	.....	.....	58 524	1 029*
.....	743 771	1 053	.....	.....	.....	.....	15 934	488*
.....	.....	.....	.....	.....	.....	.....	77 629	497
.....	.....	.....	.....	.....	.....	.....	40 768	942*
.....	.....	.....	.....	.....	.....	.....	11 658	609
.....	.....	.....	.....	.....	.....	.....	4 332	545*
.....	.....	.....	.....	127 239	954	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	246 738	803
.....	168 231	676	.....	.....	.....	.....	4 576	837*
.....	24 623	1 100	.....	.....	.....	.....	15 443	710
.....
.....	174 772	947	.....	.....	.....	.....	163 799	1 610
.....
.....	82 856	555	.....	.....	.....	.....	.....	.....
.....	71 003	1 034	.....	.....	38 569	649	.....	.....
.....
.....	131 901	936	.....	.....	25 812	771	.....	.....
.....	.....	.....	.....	.....	.....	.....	74 576	1 350
.....	547 930	910	.....	.....	.....	.....	.....	.....
.....	721 030	1 993	.....	.....	.....	.....	232 936	738
.....	.....	.....	.....	.....	.....	.....	363 740	1 823
.....	808 500	280	.....	.....	.....	.....	59 098	733
.....	.....	.....	.....	.....	.....	.....	67 087	617
.....

*Less than .5 psi overpressure

STATE OF FLORIDA (Continued)

COUNTY	VERY HIGH RISK		HIGH RISK		MEDIUM RISK		LOW/NO* RISK	
	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA
St Lucie	117 109	581						
Santa Rosa	65 097	1 024						
Sarasota	246 395	573						
Seminole	232 587	298						
Sumter							29 162	561*
Suwannee							25 644	690*
Taylor							18 167	1 058*
Union							11 562	246
Volusia	310 689	1 113						
Wakulla	12 889	601						
Walton	25 509	1 066						
Washington							16 144.	590*
TOTAL STATE	8 793 081	22 226	----	----	302 800	3 132	2 787 455	38 039
							(1 449 745	21 841)
							(1 337 720	16 198)*

*Less than .5 psi overpressure

STATE OF GEORGIA - - DIRECT EFFECTS RISK

Estimated 1985 Population: 5,929,233

Land Area: 59,117 square miles

COUNTY	VERY HIGH RISK		HIGH RISK		MEDIUM RISK		LOW/NO* RISK	
	GT 10 PSI POPULATION	AREA	EQ/GT 5PSI LT 10PSI POPULATION	AREA	EQ/GT 2PSI LT 5PSI POPULATION	AREA	EQ/GT .5PSI LT 2PSI POPULATION	AREA
Appling	16 441	510					6 254	344*
Atkinson							9 572	286*
Bacon							3 541	347*
Baker							38 659	258*
Baldwin								
Banks							9 940	234*
Barrow							24 768	163
Bartow								
Ben Hill	44 059	456					17 067	254*
Berrien							13 842	456
Bibb	158 476	253						
Bleckley							10 645	219
Brantley							9 430	444
Brooks							15 299	491
Bryan							12 164	441
Bulloch							37 271	678*
Burke			20 728	833				
Butts							15 169	187
Calhoun							5 527	284*
Camden	17 682	649						
Candler							7 833	248*
Carroll	63 098	502			38 746	163		
Catoosa								
Charlton							7 741	780
Chatham	214 908	444						

*Less than .5 psi overpressure

STATE OF GEORGIA (Continued)

COUNTY	VERY HIGH RISK POPULATION	AREA	HIGH RISK POPULATION	AREA	MEDIUM RISK POPULATION	AREA	LOW/NO* RISK POPULATION	RISK AREA
Chattahoochee	.....		.....		.....		20 139	250
Chattooga	.....		.....		.....		21 345	314*
Cherokee	.....		.....		.....		65 533	424
Clarke	76 890	122	.....		.....		3 278	197*
Clay	.....		.....		.....
Clayton	165 686	148	.....		.....		6 863	821*
Clinch	.....		.....		.....
Cobb	368 393	343	.....		.....		28 818	602*
Coffee	.....		.....		.....		36 484	556*
Colquitt	.....		.....		.....
Columbia	.....		.....	51 795	290		13 889	232
Cook	.....		.....		.....		7 087	328
Coweta	.....		.....	43 886	444		20 258	275*
Crawford	.....		.....		.....
Crisp	.....		.....		.....		11 389	176
Dade	.....		.....		.....		5 873	210*
Dawson	.....		.....		.....		26 635	586*
Decatur	.....		.....		.....
De Kalb	506 550	270	.....		.....		16 747	504*
Dodge	.....		.....		.....		10 616	397*
Dooley	.....		.....		.....
Dougherty	103 630	330	.....		.....
Douglas	65 631	203	.....		.....
Early	.....		13 150	516	.....		2 235	420
Echols	.....		.....		.....
Effingham	.....		.....		.....		21 091	482
Elbert	.....		.....		.....		19 042	367*
Evans	.....		.....		.....		21 366	688*
Fannin	.....		.....		.....		8 504	186*
	15 266	384	.....		.....

*Less than .5 psi overpressure

STATE OF GEORGIA (Continued)

COUNTY	VERY HIGH RISK POPULATION	VERY HIGH RISK AREA	HIGH RISK POPULATION	HIGH RISK AREA	MEDIUM RISK POPULATION	MEDIUM RISK AREA	LOW/NO* RISK POPULATION	LOW/NO* RISK AREA
Fayette	42 806	199	78 516	519
Floyd	34 431	226
Forsyth	15 569	264*
Franklin
Fulton	621 030	534	.....	.....	.....	.....	.....	.....
Gilmer	11 822	427
Glascock	2 331	144*
Glynn	60 350	412	.....	.....	.....	.....	32 616	353*
Gordon	21 318	459
Grady
Greene	11 978	390*
Gwinnett	246 112	435	.....	.....	27 014	278*
Habersham	83 207	379*
Hall	9 302	469*
Hancock
Haralson	19 589	283
Harris	16 380	464	.....	.....	19 220	230*
Hart
Heard	6 750	292	.....	.....	43 673	321
Henry
Houston	85 180	380	.....	.....	.....	.....	8 813	362*
Irwin
Jackson	27 158	342	.....	.....	.....	.....
Jasper	7 744	371	11 846	335*
Jeff Davis	18 725	529*
Jefferson
Jenkins	8 421	353
Johnson	8 602	307
Jones
Lamar	18 579	394	.....	.....	.....	.....	12 294	186*
Lanier	5 644	194*

*Less than .5 psi overpressure

STATE OF GEORGIA (Continued)

COUNTY	VERY HIGH RISK POPULATION	AREA	HIGH RISK POPULATION	AREA	MEDIUM RISK POPULATION	AREA	LOW/NO* RISK POPULATION	AREA
Laurens		30 253	816*
Lee		14 081	358		
Liberty	41 837	517	.....		.....		6 892	196*
Lincoln			
Long		5 675	402		
Lowndes	72 742	507	.....		.....		12 036	287*
Lumpkin		19 633	256
McDuffie			
McIntosh		8 025	425	.....		14 188	404*
Macon			
Madison	19 506	285	.....		.....		5 384	366*
Marion		20 661	506*
Meriwether		6 795	284*
Miller			
Mitchell		21 841	512		
Monroe		14 949	397	.....		6 934	244
Montgomery		12 230	349
Morgan		21 438	345
Murray			
Muscogee	177 080	218	.....		.....
Newton		38 957	277		
Oconee		14 648	186		
Oglethorpe		9 543	442
Paulding	29 957	312	.....		.....		19 200	151
Peach			
Pickens		13 303	232*
Pierce		12 730	344*
Pike		8 631	219*
Folk	33 165	312	.....		.....
Fulaski		8 959	249*

*Less than .5 psi overpressure

STATE OF GEORGIA (Continued)

COUNTY	VERY HIGH RISK		HIGH RISK		MEDIUM RISK		LOW/NO* RISK	
	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA
Putnam	11 700	344*
Quitman	2 156	146*
Rabun	10 840	370*
Randolph	9 381	481*
Richmond	189 036	326	.....	.....	.....	.....	.....	.....
Rockdale	44 501	132	.....	.....	.....	.....	3 354	169*
Schley	14 396	655*
Screven	8 775	225
Seminole	51 453	199*
Spalding	22 239	177*
Stephens	5 862	452*
Stewart	30 374	488*
Sumter	6 496	395*
Talbot	1 986	196*
Taliaferro
Tattnall	17 783	484	.....	.....	8 082	382*
Taylor	11 042	444*
Telfair	11 943	337
Terrell	38 187	551
Thomas	33 722	268
Tift
Toombs	23 633	371	.....	.....	.....	.....	6 279	165*
Towns	5 997	202*
Trenton	53 248	415*
Troup
Turner	9 643	289*
Twiggs	9 744	362	.....	.....	10 583	320*
Union	26 591	326*
Upson
Walker

*Less than .5 psi overpressure

STATE OF GEORGIA (Continued)

COUNTY	VERY HIGH RISK POPULATION	AREA	HIGH RISK POPULATION	AREA	MEDIUM RISK POPULATION	AREA	LOW/NO* RISK POPULATION	RISK AREA
Walton	32 390	330	37 123	907
Ware	6 439	286
Warren	19 307	683
Washington	22 128	647
Wayne
Webster	2 077	210
Wheeler	5 056	299
White	11 205	242
Whitfield	68 141	291
Wilcox	7 559	382
Wilkes	11 356	470
Wilkinson	10 778	458
Worth	18 259	575	.....	.....	.....	.....

TOTAL STATE	3 233 308	9 311	371 511	4 297	395 251	4 824	1 929 163	39 685
							(859 567	16 431)
							(1 069 596	23 254)*

*Less than .5 psi overpressure

STATE OF KENTUCKY -- DIRECT EFFECTS RISK

Estimated 1985 Population: 3,730,146
Land Area: 39,639 square miles

COUNTY	VERY HIGH RISK GT 10 PSI		HIGH RISK EQ/GT 5PSI LT 10PSI		MEDIUM RISK EQ/GT 2PSI LT 5PSI		LOW/NO* RISK EQ/GT .5PSI LT 2PSI	
	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA
Adair	15 857	407*
Allen	14 370	338*
Anderson	13 522	204
Ballard	8 186	254	.....	.....	.....	.....
Barren	34 692	482*
Bath	10 263	278*
Bell	34 201	361*
Boone	51 553	246	.....	.....
Bourbon	19 147	292
Boyd	54 575	161	.....	.....	.....	.....	.....	.....
Boyle	25 106	182*
Bracken	7 555	203*
Breathitt	16 453	495*
Breckinridge	16 566	565
Bullitt	45 100	300	.....	.....
Butler	11 958	431	.....	.....	13 265	347*
Caldwell	30 551	386*
Calloway	80 896	152	.....	.....	.....	.....
Campbell	5 262	191
Carlisle
Carroll	9 850	130	.....	.....	.....	.....	25 814	407
Carter	15 293	445
Casey
Christian	64 360	722	.....	.....	.....	.....	29 442	255*
Clark

*Less than .5 psi overpressure

STATE OF KENTUCKY (Continued)

COUNTY	VERY HIGH RISK		HIGH RISK		MEDIUM RISK		LOW/NO* RISK	
	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA
Clay	23 967	471*
Clinton	9 983	196*
Crittenden	8 896	360*
Cumberland	7 334	304*
Daviess	88 834	463*
Edmonson	11 567	302*
Elliot	6 923	234*
Estill	15 107	256
Fayette	211 628	285	.....	.....	.....	.....	.....	.....
Fleming	12 524	351
Floyd	51 295	393	.....	.....	.....	.....	.....	.....
Franklin	44 192	212	.....	.....	.....	.....	8 234	211*
Fulton
Gallatin	4 962	99	.....	.....	.....	.....
Garrard	11 397	232	.....	.....
Grant	14 477	259*
Graves	37 712	557
Grayson	22 631	493*
Green	10 950	289*
Greenup	38 515	347
Hancock	8 242	189*
Hardin	90 545	629	.....	.....	.....	.....	42 139	468*
Harian	15 678	310
Harrison	17 009	412*
Hart
Henderson	42 474	438
Henry	13 467	291
Hickman	5 618	245*
Hopkins	46 424	552*
Jackson	12 586	346	.....	.....

*Less than .5 psi overpressure

STATE OF KENTUCKY (Continued)

COUNTY	VERY HIGH RISK POPULATION	AREA	HIGH RISK POPULATION	AREA	MEDIUM RISK POPULATION	AREA	LOW/NO* RISK POPULATION	RISK AREA
Jefferson	682	179	386					
Jessamine							28	497
Johnson							25	895
Kenton					136	391		163
Knott							18	395
								352
Knox							30	205
								358*
Larue							12	018
								263*
Laurel							42	251
								434*
Lawrence							15	007
								420
Lee							7	781
								211*
Leele							15	407
								402*
Letcher							30	977
								339*
Lewis	14	458	484				19	180
								332
Lincoln							9	131
								312*
Livingston								
Logan							26	045
								556
Lyon							6	425
								209*
McCracken	61	367	251				16	306
								427
McCreary							9	948
								256
McLean								
Madison	55	644	443				14	251
								310
Magoffin							17	699
								347*
Marion							25	976
								304*
Marshall							1	063
								231
Martin								
							17	091
								241
Mason	22	789	307					
Meads							5	353
								203*
Menifee							19	405
								250*
Mercer							10	359
								291*
Metcalf								

*Less than .5 psi overpressure

STATE OF KENTUCKY (Continued)

COUNTY	VERY HIGH RISK		HIGH RISK		MEDIUM RISK		LOW/NO* RISK	
	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA
Monroe	12 618	331*
Montgomery	20 410	199*
Morgan	12 122	382*
Nahlenberg	31 696	478	.....	.....	.....	.....	.....	.....
Nelson	28 923	424*
Nicholas	7 330	197*
Ohio	21 875	596	.....	.....	.....	.....	30 519	190
Oldham	9 217	354
Owen	5 641	198*
Owley
Pendleton	10 767	281*
Perry	35 419	341*
Pike	83 875	785	.....	.....	.....	.....	11 907	180
Powell
Pulaski	49 129	660	.....	.....	.....	.....	.....	.....
Robertson	2 393	100*
Rockcastle	14 664	318	.....	19 043	282*
Ronan	15 141	250
Russell
Scott	21 971	286	.....	.....	.....
Shelby	24 243	385
Simpson	14 936	236*
Spencer	6 148	192*
Taylor	22 162	270*
Todd	10 649	377
Trigg	9 386	421
Trimble	6 321	148	.....	.....	.....	.....	17 807	341*
Union	82 907	547*
Warren	10 291	301
Washington

*Less than .5 psi overpressure

STATE OF KENTUCKY (Continued)

COUNTY	VERY HIGH RISK		HIGH RISK		MEDIUM RISK		LOW/NO* RISK	
	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA
Wayne	.....	.....	.....	.....	.....	.....	17 759	446
Webster	.....	.....	.....	.....	.....	.....	14 730	336*
Whitley	.....	.....	.....	.....	.....	.....	35 619	443*
Wolfe	.....	.....	.....	.....	.....	.....	7 152	223*
Woodford	.....	.....	.....	.....	18 845	192		
TOTAL STATE	1 555 778	7 070	106 002	936	312 507	2 083	1 755 859	29 550
							(601 871	11 122)
							(1 153 988	18 428)*

*Less than .5 psi overpressure

STATE OF MISSISSIPPI - - DIRECT EFFECTS RISK

Estimated 1985 Population: 2,617,133
Land Area: 47,174 square miles

COUNTY	VERY HIGH RISK		HIGH RISK		MEDIUM RISK		LOW/NO* RISK	
	GT 10 PSI POPULATION	AREA	EQ/GT 5PSI LT 10PSI POPULATION	AREA	EQ/GT 2PSI LT 5PSI POPULATION	AREA	EQ/GT .5PSI LT 2PSI POPULATION	AREA
Adams							39 119	456*
Alcorn							32 183	401*
Amite							13 288	732*
Attala							18 901	737*
Benton							8 126	407*
Bolivar							45 246	892*
Calhoun							15 196	573*
Carroll							9 173	634*
Chickasaw							17 923	503*
Choctaw							8 542	420*
Claborn							12 621	494*
Clarke							16 823	692
Clay			22 053	415				
Coahoma							35 424	559*
Copiah							25 744	779*
Covington							15 888	416*
De Soto					58 091	483		
Forrest	70 812	469					8 373	566*
Franklin					16 044	483		
George								
Greene					9 382	718	21 543	421*
Grenada								
Hancock	29 671	478						
Harrison	171 484	581						
Hinds	261 467	875						

*Less than .5 psi overpressure

STATE OF MISSISSIPPI (Continued)

COUNTY	VERY HIGH RISK		HIGH RISK		MEDIUM RISK		LOW/NO* RISK	
	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA
Holmes	23 784	759
Humphreys	13 934	430
Itasca	2 147	406*
Itawamba	20 299	541*
Jackson	124 917	731	.....	.....	.....	.....	.....	.....
Jasper	17 173	678	.....	.....	9 793	523*
Jefferson	14 104	409*
Jefferson Davis
Jones	64 507	695	.....	.....	.....	.....	10 373	766
Kemper
Lafayette	32 522	609*
Lamar	26 768	499	.....	.....	.....	.....	.....	.....
Lauderdale	80 005	705	.....	.....	.....	.....	13 144	435*
Lawrence	18 683	584*
Leake
Lee	61 285	451*
LeFlore	42 369	605*
Lincoln	31 099	586*
Lovins
Madison	61 314	517	.....	.....	45 724	717	.....	.....
Marion	27 571	548
Marshall	32 405	709
Monroe
Montgomery	36 628	772	.....	.....	.....	.....	12 660	408*
Neshoba	24 674	571
Newton	20 288	580
Noxubee	12 537	698*
Oktibbeha	38 129	459
Panola	29 785	693*
Pearl River	38 167	819

*Less than .5 psi overpressure

STATE OF MISSISSIPPI (Continued)

COUNTY	VERY HIGH RISK		HIGH RISK		MEDIUM RISK		LOW/NO* RISK	
	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA
Perry		10 646	651*
Pike		36 699	410*
Pontotoc		21 744	499*
Prentiss		24 682	417*
Quitman		11 334	406*
Rankin	80 192	782	.....		.....		.....	.....
Scott		25 256	610*
Sharkey		8 076	435
Simpson		24 762	591*
Smith		14 554	635
Stone		10 110	446*
Sunflower		37 634	707*
Tallahatchie		16 134	651*
Tate		21 311	406*
Tippah		18 985	458*
Tishomingo		17 338	434*
Tunica		9 299	460
Union		21 595	417*
Walthall		12 870	404*
Warren		51 872	597*
Washington		72 533	733*
Wayne	20 152	813		10 196	424*
Webster		10 484	678*
Wilkinson		18 567	610*
Winston
Yalobusha		13 387	478*
Yazoo	26 826	933	.....		.....		.....	.....

TOTAL STATE

1 034 591 8 037

39 226 1 093

149 393 3 214

1 393 923 34 830

*Less than .5 psi overpressure

(278 077 7 863

(1 115 846 26 967)*

STATE OF NORTH CAROLINA - - DIRECT EFFECTS RISK

Estimated 1985 Population: 6,233,774

Land Area: 48,843 square miles

COUNTY	VERY HIGH RISK GT 10 PSI POPULATION	AREA	HIGH RISK EQ/GT 5PSI LT 10PSI POPULATION	AREA	MEDIUM RISK EQ/GT 2PSI LT 5PSI POPULATION	AREA	LOW/NO* RISK EQ/GT .5PSI LT 2PSI POPULATION	AREA
Alamance	102 865	433					26 671	259*
Alexander							9 941	234*
Alleghany							26 266	533*
Anson							23 263	426*
Ashe							15 040	247*
Avery							43 217	826*
Beaufort							21 491	701*
Bertie								
Bladen					30 794	879		
Brunswick	45 643	861						
Buncombe							166 717	659*
Burke							75 193	505*
Cabarrus							93 522	364
Caldwell							68 745	471*
Camden							5 866	241*
Carteret	48 181	525						
Caswell					22 441	427		
Catawba	112 583	396					35 680	708*
Chatham								
Charokey					20 231	452		
Chowan							12 995	181*
Clay							7 093	214*
Cleveland							84 762	468*
Columbus							51 937	939*
Craven							77 821	702

*less than .5 psi overpressure

STATE OF NORTH CAROLINA (Continued)

COUNTY	VERY HIGH RISK		HIGH RISK		MEDIUM RISK		LOW/NO* RISK	
	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA
Cumberland	252 353	657					13 318	256
Currituck							17 107	391*
Dare								
Davidson					118 693	548		
Davie							27 416	267
Duplin							41 650	819
Durham							160 837	298
Edgecombe							58 790	506*
Forsyth	238 622	412					32 305	494*
Franklin								
Gaston					170 614	357		
Gates							9 357	338*
Graham							7 104	289*
Granville							36 884	534*
Greene							16 464	266
Guilford					327 323	651	56 258	724*
Halifax								
Harnett					62 366	601	47 835	555*
Haywood							66 501	375*
Henderson								
Hertford							24 076	356*
Hoke					22 566	391	5 925	624*
Hyde								
Iredell	87 260	574					27 318	490*
Jackson								
Johnston							76 426	795
Jones							9 806	470
Lee							40 039	259
Lenoir							61 276	402
Lincoln	45 086	298						

*Less than .5 psi overpressure

STATE OF NORTH CAROLINA (Continued)

COUNTY	VERY HIGH RISK		HIGH RISK		MEDIUM RISK		LOW/NO* RISK	
	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA
McDowell	.....	.....	.....	.....	.....	.....	36 454	437*
Macon	.....	.....	.....	.....	.....	.....	23 466	517*
Madison	.....	.....	.....	.....	.....	.....	17 250	451*
Martin	.....	.....	.....	.....	.....	.....	27 437	461*
Mecklenburg	439 986	528	.....	.....	.....	.....	.....	.....
Mitchell	.....	.....	.....	.....	.....	.....	14 258	222*
Montgomery	.....	.....	.....	.....	.....	.....	23 665	490
Moore	55 254	701	.....	.....	.....	.....	.....	.....
Nash	.....	.....	.....	.....	.....	.....	70 931	540*
New Hanover	112 147	185	.....	.....	.....	.....	.....	.....
Northampton	.....	.....	.....	.....	.....	.....	22 485	538*
Onslow	120 039	763	.....	.....	.....	.....	.....	.....
Orange	.....	.....	.....	.....	.....	.....	81 875	400*
Pamlico	.....	.....	.....	.....	.....	.....	10 925	341*
Pasquotank	.....	.....	.....	.....	.....	.....	29 502	228*
Pender	.....	.....	.....	.....	.....	.....	24 268	875
Perquimans	.....	.....	.....	.....	.....	.....	9 913	246*
Person	30 316	398	.....	.....	.....	.....	.....	.....
Pitt	.....	.....	.....	.....	.....	.....	96 024	656*
Polk	.....	.....	.....	.....	.....	.....	14 758	238*
Randolph	.....	.....	.....	.....	.....	.....	97 642	789
Richmond	45 644	477	.....	.....	.....	.....	.....	.....
Robeson	106 472	949	.....	.....	.....	.....	85 801	569
Rockingham	.....	.....	.....	.....	.....	.....	102 667	519*
Rowan	.....	.....	.....	.....	.....	.....	.....	.....
Rutherford	.....	.....	.....	.....	.....	.....	56 501	568*
Sampson	.....	.....	.....	.....	.....	.....	50 707	947
Scotland	.....	.....	.....	.....	.....	.....	.....	.....
Stanly	.....	.....	.....	.....	34 149	319	.....	.....
Stokes	35 319	452	.....	.....	.....	.....	50 203	396*

*Less than .5 psi overpressure

STATE OF NORTH CAROLINA (Continued)

COUNTY	VERY HIGH RISK POPULATION	AREA	HIGH RISK POPULATION	AREA	MEDIUM RISK POPULATION	AREA	LOW/NO* RISK POPULATION	AREA
Surry	.....		.....		.....		60 500	539
Swain	.....		.....		.....		10 818	526*
Tennessee	.....		.....		.....		25 249	378*
Tyrrell	.....		.....		.....		4 130	407*
Union	.....		.....		.....		77 802	639
Vance	.....		.....		.....		38 320	249*
Wake	346 147	854	.....		.....		16 236	427*
Warren	.....		.....		.....		14 473	332*
Washington	.....		.....		.....		34 273	314*
Watauga	.....		.....		.....
Wayne	98 361	554	.....		.....		60 948	752*
Wilkes	.....		.....		.....		64 997	374
Wilson	.....		.....		.....		29 498	336
Yadkin	.....		.....		.....		15 431	314*
Yancey	.....		.....		.....
TOTAL STATE	2 342 278	10 017	---	---	809 177	4 625	3 082 319	34 201
							(1 133 455	10 002)
							(1 948 864	24 001)*

*Less than .5 psi overpressure

STATE OF SOUTH CAROLINA - - DIRECT EFFECTS RISK

Estimated 1985 Population: 3,343,422

Land Area: 30,207 square miles

COUNTY	VERY HIGH RISK GT 10 PSI POPULATION	AREA	HIGH RISK EQ/GT 5PSI LT 10PSI POPULATION	AREA	MEDIUM RISK EQ/GT 2PSI LT 5PSI POPULATION	AREA	LOW/NO* RISK EQ/GT .5PSI LT 2PSI POPULATION	AREA
Abbeville		22 919	508*
Aiken	113 409	1 092	.....		.....
Allendale		10 904	413	.....		139 797	718
Anderson		18 097	395*
Bamberg			
Barnwell		20 308	558	.....		
Beaufort	81 853	579	.....		.....		41 186	396
Berkeley	117 319	1 108	.....		.....		30 992	580*
Calhoun		11 431	380	.....		38 454	802*
Charleston	291 814	938	.....		.....		28 112	602
Cherokee		33 866	1 052
Chester		64 933	563*
Chesterfield		32 316	406*
Clarendon		73 846	575
Colleton		20 805	685
Darlington		114 936	804*
Dillon		303 856	795
Dorchester		60 352	451*
Edgefield		17 809	490	18 899	561
Fairfield			
Florence			
Georgetown	47 533	822	.....		.....
Greenville			
Greenwood			
Hampton			

*Less than .5 psi overpressure

STATE OF SOUTH CAROLINA (Continued)

COUNTY	VERY HIGH RISK POPULATION	AREA	HIGH RISK POPULATION	AREA	MEDIUM RISK POPULATION	AREA	LOW/NO* RISK POPULATION	AREA
Horry	126 279	1 143						
Jasper					14 369	655		
Kershaw							42 124	723
Lancaster							55 843	552*
Laurens							53 481	712*
Lee							18 510	411
Lexington								
McCormick			156 949	707			7 183	350
Marion							34 924	493*
Marlboro							32 459	483*
Newberry							32 044	634*
Oconee	51 780	629					86 706	1 112
Orangeburg								
Pickens	85 403	499						
Richland	282 019	762						
Saluda							17 017	456*
Spartanburg	209 163	814						
Sumter	94 839	665					30 826	515
Union							39 284	934*
Williamsburg								
York							116 464	685

TOTAL STATE 1 384 092 8 113 199 592 2 058 32 178 1 145 1 727 560 18 891)
 *Less than .5 psi overpressure (1 079 509 10 118)
 (648 051 8 773)*

STATE OF TENNESSEE - DIRECT EFFECTS RISK

Estimated 1985 Population: 4,746,516
Land Area: 40,930 square miles

COUNTY	VERY HIGH RISK		HIGH RISK		MEDIUM RISK		LOW/NO* RISK	
	GT 10 PSI POPULATION	AREA	EQ/GT 5PSI LT 10PSI POPULATION	AREA	EQ/GT 2PSI LT 5PSI POPULATION	AREA	EQ/GT .5PSI LT 2PSI POPULATION	AREA
Anderson	69 607	339			28 701	475	15 088	392*
Bedford							9 278	407*
Benton							81 926	558
Blount								
Bradley	70 601	327					35 490	479*
Campbell							10 735	266*
Cannon							51 658	341*
Carroll			28 302	600			23 557	303
Carter							12 837	289*
Cheatham							26 644	432*
Chester							8 061	227*
Claiborne							29 318	432*
Clay								
Cocke								
Coffee	40 569	429					13 895	266
Crockett							31 190	662
Cumberland							10 958	330*
Davidson	487 241	501					13 881	291*
Decatur							31 624	491
DeKalb							33 920	520
Dickson							24 623	705*
Dyer							15 603	498*
Fayette								
Fentress								

*Less than .5 psi overpressure

STATE OF TENNESSEE (Continued)

COUNTY	VERY HIGH RISK		HIGH RISK		MEDIUM RISK		LOW/NO* RISK	
	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA
Franklin	33 382	543						
Gibson	48 338	602					24 789	610*
Giles							17 155	273*
Graingar								
Greene			56 054	619				
Grundy							14 085	361*
Hambien							59 098	156*
Hamilton	282 988	539					6 751	480
Hancock							23 322	670*
Hardenan								
Hardin							22 314	578*
Hawkins			45 137	486			20 547	534*
Haywood							21 854	520
Henderson							29 023	560*
Henry								
Hickman							15 927	610*
Houston	7 011	200					15 702	527
Humphreys							9 146	308*
Jackson							35 027	266*
Jefferson								
Johnson							14 302	297*
Knox	331 840	506					8 310	168*
Lake							24 256	475
Lauderdale							34 625	617*
Lawrence								
Lewis							10 580	282*
Lincoln							26 229	571
Loudon								
McMinn					30 719	235		
McMinn			43 710	429				
McNairy							23 337	562*

*Less than .5 psi overpressure

STATE OF TENNESSEE (Continued)

COUNTY	VERY HIGH RISK POPULATION	AREA	HIGH RISK POPULATION	AREA	MEDIUM RISK POPULATION	AREA	LOW/NO* RISK POPULATION	AREA
Macon		15 567	307*
Madison		76 858	558
Marion		24 502	512	20 095	376*
Marshall		51 863	616*
Maury			
Meigs		7 787	189		
Monroe		30 048	648
Montgomery	88 788	539	.....		.....
Moore		4 907	129	.....		
Morgan		17 290	523		
Obion		32 980	550
Overton		19 095	433*
Perry		6 427	412*
Pickett		4 510	159*
Polk		13 605	437
Putnam		50 464	399*
Rhea		24 819	309
Roane	49 436	357	.....		.....
Robertson		38 717	476
Rutherford		97 308	605
Scott		20 635	528*
Sequatchie		8 618	266
Sevier		47 229	590*
Shelby	796 450	772	.....		.....
Smith		14 564	313*
Stewart	9 154	454	.....		.....
Sullivan	145 705	415	.....		.....		92 025	529
Sumner			
Tipton		35 021	454	.....		5 488	114*
Trousdale			

*Less than .5 psi overpressure

STATE OF TENNESSEE (Continued)

COUNTY	VERY HIGH RISK		HIGH RISK		MEDIUM RISK		LOW/NO* RISK	
	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA
Unicoi	.....	.....	.....	.....	.....	.....	16 911	186*
Union	.....	.....	.....	.....	.....	.....	12 358	218*
Van Buren	.....	.....	.....	.....	.....	.....	4 782	273*
Warren	.....	.....	.....	.....	.....	.....	33 436	431*
Washington	92 699	326	.....	.....	.....	.....	.....	.....
Wayne	.....	.....	.....	.....	.....	.....	14 115	734*
Weakley	.....	.....	.....	.....	.....	.....	33 395	581
White	.....	.....	.....	.....	.....	.....	19 814	373*
Williamson	.....	.....	.....	.....	.....	.....	68 284	584
Wilson	.....	.....	.....	.....	.....	.....	61 352	571
TOTAL STATE	2 549 809	6 849	213 131	2 717	108 999	1 934	1 874 577	29 430
							(888 913	11 507)
							(985 664	17 923)*

*Less than .5 psi overpressure

FEMA REGION V - - DIRECT EFFECTS RISK SUMMARY

Estimated 1985 Population: 45,687,087
Land Area: 323,545 square miles

STATE	VERY HIGH RISK		HIGH RISK		MEDIUM RISK		LOW/NO* RISK	
	GT 10 PSI POPULATION	AREA	EQ/GT 5PSI LT 10PSI POPULATION	AREA	EQ/GT 2PSI LT 5 PSI POPULATION	AREA	EQ/GT 5PSI LT 2PSI POPULATION	AREA
Illinois	8 517 316	13 686	68 783	682	297 785	5 417	2 673 372	35 801
							(1 496 597	15 088)
Indiana	1 842 108	7 796	---	---	759 597	5 842	(1 176 775	20 713)*
							2 897 931	22 325
							(1 092 641	9 311)
Michigan	5 590 565	16 262	---	---	1 296 474	7 930	(1 805 290	13 014)*
							2 143 739	32 827
							(1 424 142	13 629)
Minnesota	2 079 535	11 751	214 648	430	73 301	2 332	(719 597	19 198)*
							1 813 747	65 034
							(158 758	6 105)
							(1 654 989	58 929)*
Ohio	6 496 446	12 365	850 066	4 999	1 487 248	6 027	1 804 873	17 615
							(1 307 105	12 099)
							(497 768	5 516)*
Wisconsin	1 561 858	4 763	120 916	273	96 613	457	3 000 166	48 931
							(821 189	7 241)
							(2 178 977	41 690)*
TOTAL REGION V	26 087 828	66 623	1 254 413	6 384	4 011 018	28 005	14 333 828	222 533
							(6 300 432	63 473)
							(8 033 396	159 060)*

*Less than .5 psi overpressure

STATE OF ILLINOIS - - DIRECT EFFECTS RISK

Estimated 1985 Population: 11,557,256
Land Area: 55,986 square miles

COUNTY	VERY HIGH RISK		HIGH RISK		MEDIUM RISK		LOW/NO* RISK	
	GT 10 PSI POPULATION	AREA	EQ/GT 5PSI LT 10PSI POPULATION	AREA	EQ/GT 2PSI LT 5PSI POPULATION	AREA	EQ/GT .5PSI LT 2PSI POPULATION	AREA
Adams		70 543	852	11 799	236*
Alexander		16 041	377*
Bond		28 123	282*
Boone		5 480	306
Brown	
Bureau		37 832	869*
Calhoun		5 833	250	.....
Carroll	17 942	444	.....		.....		14 387	374*
Cass	
Champaign	170 697	998	.....		.....		.....
Christian		36 273	710
Clark		16 728	505
Clay		15 596	459*
Clinton		33 632	472*
Coles		52 388	509*
Cook	5 274 484	958	.....		.....		.....
Crawford	20 950	446	.....		.....		10 918	346*
Cumberland		73 019	634*
DeKalb		17 938	397*
Dewitt	
Douglas		19 563	417*
Du Page	711 968	337	.....		.....		21 269	623
Edgar		8 235	223
Edwards		31 633	478*
Effingham	

*Less than .5 psi overpressure

STATE OF ILLINOIS (Continued)

COUNTY	VERY HIGH RISK		HIGH RISK		MEDIUM RISK		LOW/NO* RISK	
	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA
Payette	.....	.....	.....	.....	.....	.....	22 339	709*
Ford	.....	.....	.....	.....	14 938	486	43 111	414*
Franklin	.....	.....	.....	.....	.....	.....	40 582	871
Fulton	.....	.....	.....	.....	.....	.....	7 544	325
Gallatin	.....	.....	.....	.....	.....	.....	.....	.....
Green	.....	.....	.....	.....	.....	.....	15 939	543*
Grundy	31 503	423	.....	.....	.....	.....	9 224	436*
Hamilton	.....	.....	.....	.....	.....	.....	.....	.....
Hancock	23 650	795	.....	.....	.....	.....	5 474	181*
Hardin	.....	.....	.....	.....	.....	.....	.....	.....
Henderson	9 159	373	.....	.....	53 526	824	.....	.....
Henry	.....	.....	.....	.....	.....	.....	32 535	1 118
Iroquois	.....	.....	.....	.....	.....	.....	61 293	590*
Jackson	.....	.....	.....	.....	.....	.....	11 497	496
Jasper	.....	.....	.....	.....	.....	.....	.....	.....
Jefferson	.....	.....	.....	.....	.....	.....	38 504	570*
Jersey	.....	.....	.....	.....	.....	.....	20 256	373
Jo Daviess	.....	.....	.....	.....	23 263	603	10 149	346
Johnson	.....	.....	.....	.....	.....	.....	298 217	524
Kane	.....	.....	.....	.....	.....	.....	.....	.....
Kankakee	.....	.....	.....	.....	.....	.....	99 413	678
Kendall	.....	.....	.....	.....	36 647	322	57 954	720*
Knox	.....	.....	.....	.....	.....	.....	.....	.....
Lake	465 841	454	.....	.....	.....	.....	.....	.....
La Salle	108 455	1 139	.....	.....	.....	.....	.....	.....
Lawrence	18 424	374	.....	.....	.....	.....	33 826	725*
Lee	.....	.....	.....	.....	.....	.....	40 586	1 046
Livingston	.....	.....	.....	.....	.....	.....	30 475	619
Logan	.....	.....	.....	.....	.....	.....	.....	.....
McDonough	36 265	590	.....	.....	.....	.....	.....	.....

*Less than .5 psi overpressure

STATE OF ILLINOIS (Continued)

COUNTY	VERY HIGH RISK POPULATION	VERY HIGH RISK AREA	HIGH RISK POPULATION	HIGH RISK AREA	MEDIUM RISK POPULATION	MEDIUM RISK AREA	LOW/NO* RISK POPULATION	LOW/NO* RISK AREA
McHenry	.....	.....	.....	.....	.....	.....	158 605	607
McLean	.....	.....	.....	.....	.....	.....	152 292	1 185
Macon	.....	.....	.....	.....	.....	.....	127 873	581
Macoupin	.....	.....	.....	.....	.....	.....	49 374	865*
Madison	247 422	728	.....	.....	.....	.....	.....	.....
Marion	.....	.....	.....	.....	.....	.....	44 925	573*
Marshall	.....	.....	.....	.....	.....	.....	13 787	388*
Mason	.....	.....	.....	.....	.....	.....	17 943	536
Massac	14 850	241	.....	.....	.....	.....	.....	.....
Menard	.....	.....	.....	.....	.....	.....	11 674	315
Mercer	.....	.....	.....	.....	.....	.....	19 385	559
Monroe	.....	.....	.....	.....	21 041	388	32 096	705*
Montgomery	.....	.....	.....	.....	.....	.....	37 146	568*
Morgan	.....	.....	.....	.....	.....	.....	14 598	325*
Moultrie	.....	.....	.....	.....	.....	.....	.....	.....
Ogle	.....	.....	.....	.....	45 687	759	.....	.....
Peoria	191 238	620	.....	.....	.....	.....	22 442	442*
Perry	.....	.....	.....	.....	.....	.....	16 400	439*
Piatt	.....	.....	.....	.....	.....	.....	18 603	830*
Pike	.....	.....	.....	.....	.....	.....	.....	.....
Pope	.....	.....	.....	.....	.....	.....	4 345	374
Pulaski	.....	.....	.....	.....	.....	.....	8 556	203
Pu-nam	.....	.....	.....	.....	.....	.....	6 199	160*
Randolph	35 699	583	.....	.....	.....	.....	.....	.....
Richland	.....	.....	.....	.....	.....	.....	18 653	360
Rock Island	164 903	423	.....	.....	.....	.....	.....	.....
St Clair	267 819	672	.....	.....	.....	.....	28 808	385*
Saline	.....	.....	.....	.....	.....	.....	.....	.....
Sangamon	179 013	806	.....	.....	.....	.....	.....	.....
Schuyler	.....	.....	.....	.....	8 028	436	.....	.....

*Less than .5 psi overpressure

STATE OF ILLINOIS (Continued)

COUNTY	VERY HIGH RISK POPULATION	AREA	HIGH RISK POPULATION	AREA	MEDIUM RISK POPULATION	AREA	LOW/NO* RISK POPULATION	AREA
Scott	.....		.....		.....		5 978	251*
Shelby	.....		.....		.....		23 698	747*
Stark	.....		.....		.....		6 878	288*
Stephenson	49 795	564						
Tazewell	128 870	650						
Union	.....		.....		.....		18 287	414*
Vermillion	.....		.....		.....		92 625	900*
Wabash	14 342	224						
Warren	.....		.....		.....		21 014	543*
Washington	.....		.....		.....		15 168	563
Wayne	.....		.....		.....		18 799	715*
White	.....		.....		18 279	497		
Whiteside	.....		63 783	682				
Will	334 477	844						
Williamson	.....		.....		.....		59 035	427*
Winnebago	.....		.....		.....		249 453	515
Woodford	.....		.....		.....		33 211	527
TOTAL STATE	8 517 316	13 686	68 783	682	297 785	5 417	2 673 372	35 801 (1 496 597 15 088) (1 176 775 20 713)*

*Less than .5 psi overpressure

STATE OF INDIANA -- DIRECT EFFECTS RISK

Estimated 1985 Population: 5,499,636
Land Area: 35,963 square miles

COUNTY	VERY HIGH RISK		HIGH RISK		MEDIUM RISK		LOW/NO* RISK	
	GT 10 PSI POPULATION	AREA	EQ/GT 5PSI LT 10PSI POPULATION	AREA	EQ/GT 2PSI LT 5PSI POPULATION	AREA	EQ/GT .5PSI LT 2PSI POPULATION	AREA
Adams		29 889	340
Allen	287 909	659	.....		.....		64 218	409*
Bartholomew		10 004	407*
Benton		15 552	166*
Blackford			
Boone		39 948	424	12 489	312*
Brown		19 420	372
Carroll		39 602	414		
Cass			
Clark	89 700	376	.....		.....
Clay		24 189	360	31 984	405
Clinton		9 847	307*
Crawford			
Daviess	29 889	432	.....		.....
Dearborn		37 278	307		
Decatur		24 060	373*
De Kalb		32 482	364
Delaware		122 300	392*
Dubois	35 783	429	.....		.....		143 394	466
Elkhart			
Fayette		27 786	215*
Floyd		63 461	150	18 929	398*
Franklin		21 208	385
Fulton		18 858	369		

*Less than .5 psi overpressure

STATE OF INDIANA (Continued)

COUNTY	VERY HIGH RISK		HIGH RISK		MEDIUM RISK		LOW/NO* RISK	
	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA
Gibson	.....	.....	.....	34 621	490	.....	78 305	415*
Grant	.....	.....	.....	.....	.....	.....	.....	.....
Greene	30 483	546	.....	.....	.....	.....	.....	.....
Hamilton	.....	.....	.....	90 684	398	.....	.....	.....
Hancock	.....	.....	.....	44 449	307	.....	.....	.....
Harrison	.....	.....	.....	.....	.....	.....	28 777	486
Hendricks	73 600	409	.....	.....	.....	.....	49 438	393*
Henry	.....	.....	.....	84 640	293	.....	34 915	366
Howard	.....	.....	.....	.....	.....	.....	.....	.....
Huntington	.....	.....	.....	.....	.....	.....	.....	.....
Jackson	.....	.....	.....	.....	.....	.....	37 924	514*
Jasper	.....	.....	.....	.....	.....	.....	26 785	561*
Jay	.....	.....	.....	.....	.....	.....	21 544	384*
Jefferson	30 439	363	.....	.....	.....	.....	22 737	378
Jennings	.....	.....	.....	.....	.....	.....	.....	.....
Johnson	82 426	321	.....	.....	.....	.....	.....	.....
Knox	.....	.....	.....	43 254	520	.....	.....	.....
Kosciusko	.....	.....	.....	62 293	540	.....	28 018	380*
LaGrange	.....	.....	.....	.....	.....	.....	.....	.....
Lake	500 016	501	.....	.....	.....	.....	.....	.....
La Porte	.....	.....	.....	106 674	600	.....	41 069	452*
Lawrence	.....	.....	.....	.....	.....	.....	132 788	453
Madison	.....	.....	.....	.....	.....	.....	.....	.....
Marion	777 116	396	.....	.....	.....	.....	40 965	444
Marshall	.....	.....	.....	.....	.....	.....	.....	.....
Martin	10 811	339	.....	.....	.....	.....	.....	.....
Miami	36 512	369	.....	.....	.....	.....	101 351	385
Monroe	.....	.....	.....	.....	.....	.....	35 828	505*
Montgomery	.....	.....	.....	53 958	409	.....	.....	.....
Morgan	.....	.....	.....	.....	.....	.....	.....	.....

*Less than .5 psi overpressure

STATE OF INDIANA (Continued)

COUNTY	VERY HIGH RISK POPULATION	AREA	HIGH RISK POPULATION	AREA	MEDIUM RISK POPULATION	AREA	LOW/NO* RISK POPULATION	RISK AREA
Newton	.....		.....		.....		14 572	401*
Noble	.....		.....		.....		36 347	413
Ohio	.....		.....		.....		5 153	87
Orange	.....		.....		.....		18 661	408*
Owen	.....		.....		.....		16 529	386*
Parke	.....		.....		.....		16 845	444
Perry	.....		.....		.....		19 057	381*
Pike	13 173	341	.....		.....
Porter	126 246	419	.....		.....
Posey	26 129	410	.....		.....
Polaski	.....		.....		.....		13 458	435*
Putnam	.....		.....		.....		30 660	482*
Randolph	.....		.....		.....		28 234	454*
Ripley	.....		.....		.....		25 250	447
Rush	.....		.....		.....		19 766	408*
St Joseph	239 263	459	.....		.....		20 313	192
Scott	.....		.....		.....		40 382	412
Shelby	.....		.....		.....		21 255	400
Spencer	.....		.....		.....		20 993	309*
Starke	.....		.....		.....
Steuben	.....		.....		.....		25 018	308*
Sullivan	.....		.....		.....		20 798	452
Switzerland	.....		.....		.....
Tiptecanoe	7 626	224	.....		.....		124 393	502*
Tipton	.....		.....	15 688	261			
Union	.....		.....		.....		6 746	163*
Vanderburgh	.....		.....		.....		168 196	263
Vermillion	.....		.....		.....		17 904	260
Vigo	109 571	405	.....		.....
Wabash	34 816	398	.....		.....

*Less than .5 psi overpressure

STATE OF INDIANA (Continued)

COUNTY	VERY HIGH RISK POPULATION	AREA	HIGH RISK POPULATION	AREA	MEDIUM RISK POPULATION	AREA	LOW/NO* RISK POPULATION	AREA
Warren	.....		.....		.....		8 969	366*
Warrick	.....		.....		.....		45 743	391
Washington	.....		.....		.....		22 315	516*
Wayne	.....		.....		.....		72 979	404*
Wells	.....		.....		.....		24 878	370
White	.....		.....		.....		23 599	506*
Whitley	.....		.....		.....		26 512	336
TOTAL STATE	1 842 108	7 796	---	---	759 597	5 842	2 897 931	22 325
							(1 092 641	9 311)
							(1 805 290	13 014)*

*Less than .5 psi overpressure

STATE OF MICHIGAN -- DIRECT EFFECTS RISK

Estimated 1985 Population: 9,030,778
Land Area: 57,019 square miles

COUNTY	VERY HIGH RISK		HIGH RISK		MEDIUM RISK		LOW/NO* RISK	
	GT 10 PSI POPULATION	AREA	EQ/GT 5PSI LT 10PSI POPULATION	AREA	EQ/GT 2PSI LT 5PSI POPULATION	AREA	EQ/GT .5PSI LT 2PSI POPULATION	AREA
Alcona							9 865	679
Alger							8 715	912
Allegan							84 857	832
Alpena	31 164	568						
Antrim				16 919	480			
Arenac							15 260	368
Baraga							8 276	901*
Barry					46 620	560		
Bay	116 484	447						
Benzie							11 105	322*
Benzie								
Branch	160 914	576						
Branch							38 324	508*
Calhoun	136 813	712						
Cass				47 369	496			
Charlevoix	19 648	421						
Cheboygan							20 952	720*
Chippewa	28 740	1 590						
Clare							24 955	570*
Clinton				55 108	573			
Crawford							9 904	159
Delta							39 551	1 173
Dickinson							25 983	770
Eaton				89 510	579			
Emmet				23 747	468			
Genesee				430 014	642			

*Less than .5 psi overpressure

STATE OF MICHIGAN (Continued)

COUNTY	VERY HIGH RISK		HIGH RISK		MEDIUM RISK		LOW/NO* RISK	
	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA
Gladwin	.....	.....	.....	.....	.....	.....	21 607	505
Gogebic	.....	.....	.....	.....	.....	.....	19 217	1 105*
Grand Traverse	.....	.....	.....	.....	.....	.....	57 547	466*
Gratiot	39 574	570	.....	.....	.....	.....	.....	.....
Hilldale	.....	.....	.....	.....	.....	.....	41 565	603
Houghton	38 148	1 014	.....	.....	.....	.....	.....	.....
Huron	.....	.....	.....	.....	.....	.....	35 867	830*
Ingham	270 681	560	.....	.....	.....	.....	.....	.....
Ionia	.....	.....	.....	52 503	577	.....	.....	.....
Iosco	30 680	546	.....	.....	.....	.....	.....	.....
Iron	.....	.....	.....	.....	.....	.....	14 100	1 163*
Isabella	.....	.....	.....	54 659	576	.....	.....	.....
Jackson	143 728	705	.....	.....	.....	.....	.....	.....
Kalamazoo	215 916	562	.....	.....	.....	.....	11 623	563*
Kalkaska	.....	.....	.....	.....	.....	.....	.....	.....
Kent	465 963	862	.....	.....	.....	.....	.....	.....
Keweenaw	.....	.....	.....	2 096	544	.....	8 593	569*
Lake	.....	.....	.....	.....	.....	.....	48 766	658
Lapeer	.....	.....	.....	.....	.....	.....	14 462	341*
Leelanau	.....	.....	.....	.....	.....	.....	.....	.....
Lenawee	.....	.....	.....	.....	.....	.....	87 729	753
Livingston	.....	.....	.....	.....	.....	.....	100 690	575
Luce	.....	.....	.....	.....	.....	.....	5 790	905*
MacKineac	.....	.....	.....	.....	.....	.....	10 241	1 025
Macomb	684 008	483	.....	.....	.....	.....	.....	.....
Manistee	.....	.....	.....	.....	.....	.....	22 152	543*
Marquette	71 997	1 882	.....	.....	.....	.....	.....	.....
Mason	.....	.....	.....	.....	.....	.....	26 439	495*
Macosta	.....	.....	.....	.....	.....	.....	37 282	560*
Menominee	.....	.....	.....	.....	.....	.....	25 896	1 045*

*Less than .5 psi overpressure

STATE OF MICHIGAN (Continued)

COUNTY	VERY HIGH RISK		HIGH RISK		MEDIUM RISK		LOW/NO* RISK	
	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA
Midland	.....	.....	.....	76 114	525	.....	10 689	565*
Missaukee	130 040	557	.....	.....	.....	.....	.....	.....
Monroe	50 284	713	.....	.....	.....	.....	.....	.....
Montcalm	.....	.....	.....	.....	.....	.....	.....	.....
Montmorency	.....	.....	.....	.....	.....	.....	7 813	550*
Nuskegon	.....	.....	.....	.....	.....	.....	155 184	507*
Newaygo	.....	.....	.....	.....	.....	.....	36 547	847*
Oakland	1 003 070	875	.....	.....	.....	.....	21 979	541*
Oceana	.....	.....	.....	.....	.....	.....	.....	.....
Ogemaw	17 661	569	.....	.....	.....	.....	.....	.....
Ontonagon	.....	.....	.....	.....	.....	.....	9 630	1 311*
Oscoda	.....	.....	.....	.....	.....	.....	20 422	569*
Cascade	.....	.....	.....	.....	.....	.....	6 914	568
Oshtemo	.....	.....	.....	.....	.....	.....	15 421	516
Ottawa	.....	.....	.....	166 497	567	.....	.....	.....
Presque Isle	.....	.....	.....	.....	.....	.....	13 781	656
Roscommon	.....	.....	.....	18 544	528	.....	.....	.....
Saginaw	.....	.....	.....	216 774	815	.....	.....	.....
St Clair	137 706	734	.....	.....	.....	.....	.....	.....
St Joseph	.....	.....	.....	.....	.....	.....	58 102	503
Sanilac	.....	.....	.....	.....	.....	.....	39 937	964*
Schoolcraft	.....	.....	.....	.....	.....	.....	8 415	1 173*
Shiawassee	.....	.....	.....	.....	.....	.....	67 929	541
Tuscola	.....	.....	.....	.....	.....	.....	54 830	812
Van Buren	.....	.....	.....	.....	.....	.....	66 432	612
Washtenaw	265 283	710	.....	.....	.....	.....	.....	.....
Wayne	2 148 063	615	.....	.....	.....	.....	.....	.....
Westford	.....	.....	.....	.....	.....	.....	26 401	566*

TOTAL STATE 5 590 565 16 262 --- --- 1 296 474 7 930 2 143 739 32 887
 *Less than .5 psi overpressure (1 424 142 13 629)
 (719 597 19 198)*

STATE OF MINNESOTA - - DIRECT EFFECTS RISK

Estimated 1985 Population: 4,181,231
Land Area: 79,547 square miles

COUNTY	VERY HIGH RISK GT 10 PSI POPULATION	AREA	HIGH RISK EQ/GT 5PSI LT 10PSI POPULATION	AREA	MEDIUM RISK EQ/GT 2PSI LT 5PSI POPULATION	AREA	LOW/NO* RISK EQ/GT .5PSI LT 2PSI POPULATION	AREA
Aitkin		13 615	1 834*
Anoka		214 648	430	.....		
Becker		29 238	1 312*
Beltrami		33 755	2 507*
Benton		26 710	408*
Big Stone		7 694	497*
Blue Earth		51 263	749*
Brown		28 437	610*
Carlton	30 176	864	.....		.....
Carver	39 822	351			
Cass		21 799	2 033*
Chippewa		14 480	584*
Chicago		28 024	417*
Clay	48 492	1 049	.....		.....
Clearwater		8 958	1 000*
Cook		4 068	1 412
Cottonwood		14 015	640*
Crow Wing		43 714	1 008*
Dakota	218 358	575	.....		.....
Dodge		15 445	439*
Douglas		29 249	644*
Fairbault		18 552	714*
Fillmore		21 505	862*
Freeborn		35 034	705*
Goodhue		39 373	763*

*Less than .5 psi overpressure

STATE OF MINNESOTA (Continued)

COUNTY	VERY HIGH RISK		HIGH RISK		MEDIUM RISK		LOW/NO* RISK	
	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA
Grant	969 049	521					6 899	547*
Mennepin							18 852	564*
Houston							14 427	936*
Hubbard							25 121	440*
Isanti								
Itasca							42 784	2 661*
Jackson							13 471	699*
Kanabec							12 663	527*
Kandiyohi							38 440	784*
Kittson							6 467	1 104*
Koochiching							16 344	3 108*
Lac Qui Parle							10 177	772*
Lake	11 624	2 053					3 775	1 296*
Lake of the Wood							23 743	446*
Le Sueur								
Lincoln							7 811	539*
Lyon							25 402	714*
McLeod							30 687	489*
Mahnomen							5 369	559*
Marshall							12 456	1 760
Martin							24 921	706*
Meeker							21 191	624*
Mill Lake							18 965	578*
Morrison							30 289	1 124*
Mower							39 199	711*
Murray							10 926	702*
Nicollet							27 475	440*
Nobles							21 185	714*
Norman							8 628	877*
Olmsted							97 282	655*

*Less than .5 psi overpressure

STATE OF MINNESOTA (Continued)

COUNTY	VERY HIGH RISK		HIGH RISK		MEDIUM RISK		LOW/NO* RISK	
	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA
Otter Tail	52 568	1 973*
Pennington	13 745	618*
Pine	21 028	1 421
Pipestone	11 155	466*
Polk	33 479	1 981	.....	.....	.....	.....
Pope	11 767	668*
Ramsey	469 833	154	.....	.....	.....	.....	.....	.....
Red Lake	5 145	433*
Redwood	19 036	881*
Renville	19 875	984*
Rice	47 643	501*
Rock	10 482	483
Roseau	12 588	1 677*
St. Louis	206 555	6 125	.....	.....	.....	.....	.....	.....
Scott	47 955	357
Sherburne	33 369	435*
Sibley	15 312	593*
Stearns	113 166	1 338*
Steele	29 841	431*
Stevens	10 574	560*
Swift	12 526	742*
Todd	25 886	941*
Traverse	5 391	575*
Wabasha	19 538	537*
Wadena	13 856	537*
Waseca	18 502	422*
Washington	125 448	390	.....	.....	.....	.....	.....	.....
Watsonwan	12 366	435*
Wilkin	7 996	751*
Winona	46 636	630*

*Less than .5 psi overpressure

STATE OF MINNESOTA (Continued)

COUNTY	VERY HIGH THREAT POPULATION	AREA	HIGH THREAT POPULATION	AREA	MEDIUM THREAT POPULATION	AREA	LOW/NO* THREAT POPULATION	AREA
Wright	.....		.....		.....		62 769	672
Yellow Medicine	.....		.....		.....		13 155	759*
TOTAL STATE	2 079 535	11 751	214 648	430	73 301	2 332	1 813 747	65 034
							(158 758	6 105)
							(1 654 989	58 929)*

*Less than .5 psi overpressure

STATE OF OHIO - - DIRECT EFFECTS RISK

Estimated 1985 Population: 10,638,633
Land Area: 41,006 square miles

COUNTY	VERY HIGH RISK GT 10 PSI		HIGH RISK EQ/GT 5PSI LT 10PSI		MEDIUM RISK EQ/GT 2PSI LT 5PSI		LOW/NO* RISK EQ/GT .5PSI LT 2PSI	
	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA
Adams	.....	.....	.....	.....	24 825	586	.....	.....
Allen	108 246	405	.....	.....	.....	.....	.....	.....
Ashland	.....	.....	.....	.....	46 416	424	.....	.....
Ashtabula	100 965	703	.....	.....	.....	.....	.....	.....
Athens	.....	.....	.....	.....	58 385	508	.....	.....
Auglaize	43 248	398	.....	.....	.....	.....	.....	.....
Belmont	.....	.....	.....	.....	81 529	537	.....	.....
Brown	.....	.....	.....	.....	.....	.....	33 844	493
Butler	.....	.....	267 089	465	.....	.....	.....	.....
Carroll	27 213	393	.....	.....	.....	.....	.....	.....
Champaign	.....	.....	.....	.....	.....	.....	33 387	429
Clark	146 853	398	.....	.....	.....	.....	.....	.....
Clermont	.....	.....	138 508	456	.....	.....	34 895	410*
Clinton	.....	.....	.....	.....	.....	.....	.....	.....
Columbiana	11 603	534	.....	.....	.....	.....	.....	.....
Coshocton	36 487	566	.....	.....	.....	.....	48 719	403*
Crawford	.....	.....	.....	.....	.....	.....	.....	.....
Cuyahoga	1 451 046	459	.....	.....	.....	.....	.....	.....
Darke	.....	.....	53 525	606	.....	.....	38 008	414*
Defiance	.....	.....	.....	.....	.....	.....	.....	.....
Delaware	.....	.....	.....	.....	.....	.....	58 142	443
Erie	.....	.....	.....	.....	.....	.....	77 447	264
Fairfield	.....	.....	.....	.....	.....	.....	96 335	506
Payette	.....	.....	.....	.....	.....	.....	27 400	405*
Franklin	899 877	542	.....	.....	.....	.....	.....	.....

*Less than .5 psi overpressure

STATE OF OHIO (Continued)

COUNTY	VERY HIGH RISK POPULATION	AREA	HIGH RISK POPULATION	AREA	MEDIUM RISK POPULATION	AREA	LOW/NO* RISK POPULATION	AREA
Fulton	38 575	407						
Gallia	30 092	471					75 013	408*
Geauga								
Greene	129 410	415					41 304	522
Guernsey								
Hamilton	861 633	412						
Hancock	64 917	532					31 387	471
Hardin							16 159	400
Harrison								
Henry					28 187	415		
Highland							34 376	553*
Hocking							24 746	423*
Holmes							30 289	424*
Huron							55 072	495
Jackson							29 753	420*
Jefferson	86 780	410					47 613	529
Knox								
Lake	216 175	231						
Lawrence	62 576	456			124 764	686		
Licking								
Logan							39 597	458
Lorain	270 340	495						
Lucas	462 017	341					34 949	467
Madison								
Mahoning					279 136	417		
Marion							66 049	403*
Medina					116 655	422		
Meigs			23 696	432				
Mercer					38 647	457		
Miami							88 976	410

*Less than .5 psi overpressure

STATE OF OHIO (Continued)

COUNTY	VERY HIGH RISK		HIGH RISK		MEDIUM RISK		LOW/NO* RISK	
	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA
Monroe		16 091	458	.....		.....
Montgomery		561 738	458	14 056	420
Morgan		26 564	406
Morrow	
Muskingum		84 376	654	.....		.....
Noble		11 231	399
Ottawa		39 633	253
Paulding		20 507	419*
Perry		31 855	412*
Pickaway		42 544	503	.....
Pike	24 296	443	.....		.....		137 910	493
Portage		38 517	426
Preble		33 276	484
Putnam	
Richland	128 552	497	.....		.....		.....
Ross		68 139	692
Sandusky		61 918	409	.....		.....
Scioto		84 422	614	.....
Seneca		61 233	553	.....		.....
Shelby		43 360	409	.....		.....
Stark	376 852	574	.....		.....		85 576	569
Summit	509 599	412	.....		.....		31 017	437
Trumbull	235 536	612	.....		.....		.....
Tuscarawas	
Union	
Van Wert		29 833	410
Vinton		11 473	414
Warren		103 313	403
Washington	
Wayne	64 922	640	100 270	557	.....		.....

*Less than .5 psi overpressure

STATE OF OHIO (Continued)

COUNTY	VERY HIGH RISK POPULATION	VERY HIGH RISK AREA	HIGH RISK POPULATION	HIGH RISK AREA	MEDIUM RISK POPULATION	MEDIUM RISK AREA	LOW/NO* RISK POPULATION	LOW/NO* RISK AREA
Williams	.....	.....	.....	.....	.....	.....	36 158	422*
Wood	108 636	619	.....	.....	.....	.....	.....	.....
Wyandot	.....	.....	.....	.....	.....	.....	22 355	406
TOTAL STATE	6 496 446	12 365	850 066	4 999	1 487 248	6 027	1 804 873	17 615
							(1 307 105	12 099)
							(497 768	5 516)*

*Less than .5 psi overpressure

STATE OF WISCONSIN - - DIRECT EFFECTS RISK

Estimated 1985 Population: 4,779,553
Land Area: 54,424 square miles

COUNTY	VERY HIGH RISK		HIGH RISK		MEDIUM RISK		LOW/NO* RISK	
	GT 10 PSI POPULATION	AREA	RQ/GT 5PSI LT 10PSI POPULATION	AREA	RQ/GT 2PSI LT 5PSI POPULATION	AREA	RQ/GT .5PSI LT 2PSI POPULATION	AREA
Adams		13 859	648*
Ashland		17 248	1 048*
Barron		39 553	865*
Bayfield		14 400	1 462*
Brown		182 756	524*
Buffalo		14 572	699*
Burnett		13 869	818*
Calumet		33 511	326*
Chippewa		53 660	1 017*
Clark		34 020	1 218*
Columbia		44 916	771
Crawford		16 679	566*
Dane	335 264	1 205	.....		.....		76 135	887*
Dodge		26 236	492*
Door
Douglas	43 876	1 305	.....		.....		34 908	853*
Dunn		83 603	638*
Eau Claire		4 025	486*
Florence		89 789	725*
Fond du Lac
Forest		9 364	1 011*
Grant		51 842	1 142*
Green		30 446	583
Green Lake		19 281	357*
Iowa		20 743	760*

*Less than .5 psi overpressure

STATE OF WISCONSIN (Continued)

COUNTY	VERY HIGH RISK		HIGH RISK		MEDIUM RISK		LOW/NO* RISK	
	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA
Iron							6 280	751*
Jackson							16 607	998
Jefferson							66 968	562*
Juneau	21 336	774						
Kenosha			120 916	273				
Kewaunee							20 184	343*
La Crosse					93 613	457	17 175	634*
Lafayette							20 122	873*
Langlade							28 174	886*
Lincoln							83 201	594*
Manitowoc							112 970	1 559*
Marathon							40 352	1 395*
Marinette							12 737	454*
Marquette							3 832	359*
Menominee								
Milwaukee	951 403	241					30 044	1 002*
Monroe	36 025	904					31 238	1 130*
Oconto							133 891	642*
Oneida								
Outagamie							67 465	235
Ozaukee							7 643	231*
Pepin							32 390	576
Pierce							34 191	919*
Polk							57 011	810*
Portage								
Price							16 777	1 256*
Racine	173 954	334					17 627	585*
Richland							138 419	724
Rock							16 110	913*
Rusk								

*Less than .5 psi overpressure

STATE OF WISCONSIN (Continued)

COUNTY	VERY HIGH RISK		HIGH RISK		MEDIUM RISK		LOW/NO* RISK	
	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA
St Croix	45 277	723
Sauk	44 873	836
Sawyer	14 310	1 255*
Shawano	36 820	897*
Sheboygan	102 389	515*
Taylor	18 660	975*
Trempealeau	26 132	736*
Vernon	26 772	808
Vilas	17 750	867*
Walworth	70 757	556*
Washburn	13 767	815*
Washington	87 947	431
Waukesha	286 077	554
Waupaca	43 959	754*
Waushara	19 321	628*
Winneshago	133 994	449*
Wood	77 538	801*

TOTAL STATE	1 561 858	4 762	120 916	273	96 613	457	3 000 166	48 931
							(821 189	7 241)
							(2 178 977	41 960)*

*Less than .5 psi overpressure

F E M A R E G I O N V I - - D I R E C T E F F E C T S R I S K S U M M A R Y

Estimated 1985 Population: 28,140,362
Land Area: 548,583 square miles

STATE	VERY HIGH RISK GT 10 PSI		HIGH RISK EQ/GT 5 PSI LT 10PSI		MEDIUM RISK EQ/GT 2 PSI LT 5PSI		LOW/NO* RISK EQ/GT .5PSI LT 2PSI	
	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA
Arkansas	684 065	5 881	122 524	3 100	126 318	3 882	1 430 734 (143 121 (1 287 613	39 219 2 924) 36 295)*
Louisiana	2 874 344	15 620	----	----	241 823	3 988	1 408 852 (521 728 (887 124	24 912 8 284) 16 628)*
New Mexico	1 096 156	40 531	----	----	17 008	2 453	347 619 (159 355 (188 264	78 352 17 476) 60 876)*
Oklahoma	2 162 942	17 312	72 149	930	186 705	7 887	943 123 (487 142 (455 981	42 527 20 080) 22 447)*
Texas	11 856 816	45 954	43 175	1 098	1 081 754	19 826	3 344 255 (1 536 202 (1 808 053	195 111 49 915) 145 196)*

TOTAL REGION VI 18 774 323 125 298 237 848 5 128 1 653 608 38 036 7 474 583 380 121
(2 847 548 98 679)
(4 627 035 281 442)*

*Less than .5 psi overpressure

STATE OF ARKANSAS -- DIRECT EFFECTS RISK

Estimated 1985 Population: 2,363,641
Land Area: 52,082 square miles

COUNTY	VERY HIGH RISK GT 10 PSI		HIGH RISK EQ/GT 5PSI LT 10PSI		MEDIUM RISK EQ/GT 2PSI LT 5PSI		LOW/NO* RISK EQ/GT .5PSI LT 2PSI	
	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA
Arkansas	24 025	1 006*
Ashley	26 615	934*
Baxter	30 117	546*
Benton	86 071	844*
Boone	28 115	584*
Bradley	13 434	654*
Calhoun	6 162	629	17 597	634*
Carroll	18 017	649*
Chicot	23 166	867*
Clark
Clay	19 819	641	19 153	551*
Cleburne	8 119	599
Cleveland
Columbia	27 495	767	.....	.....	.....	.....
Conway	19 479	558*
Craighead	63 470	713*
Crawford	40 173	593*
Crittenden	50 180	599	20 753	622*
Cross	11 014	668*
Dallas
Desha	19 698	746*
Drew	17 946	831*
Faulkner	50 628	646
Franklin	15 588	609*
Fulton	10 449	616*

*Less than .5 psi overpressure

STATE OF ARKANSAS (Continued)

COUNTY	VERY HIGH RISK POPULATION	VERY HIGH RISK AREA	HIGH RISK POPULATION	HIGH RISK AREA	MEDIUM RISK POPULATION	MEDIUM RISK AREA	LOW/NO* RISK POPULATION	LOW/NO* RISK AREA
Garland	74 774*	657*
Grant	13 183	633*
Greene	31 370	578*
Hempstead	23 615	725*
Hot Spring	27 264	615*
Howard	13 584	574*
Independence	32 517	763*
Izard	11 018	581*
Jackson	21 479	633*
Jefferson	90 496	882	.....	.....	18 525	676	.....	.....
Johnson	10 093	518*
Lafayette	18 546	589*
Lawrence	15 391	602*
Lee	13 046	563*
Lincoln	14 145	516*
Little River
Logan	20 662	717	.....	.....
Lonsake	37 233	783	.....	.....	11 851	837*
Madison	12 601	587*
Marion
Miller	39 656	619	.....	.....	.....	.....
Mississippi	59 199	897	.....	.....	.....	.....	13 383	609*
Monroe	7 782	775*
Montgomery
Nevada	10 970	620	.....	.....
Newton	8 207	823*
Oaschita	33 443	737	.....	.....	.....	.....	7 924	551*
Perry	33 653	685*
Phillips	10 051	598*
Pike

*Less than .5 psi overpressure

STATE OF ARKANSAS (Continued)

COUNTY	VERY HIGH RISK POPULATION	VERY HIGH RISK AREA	HIGH RISK POPULATION	HIGH RISK AREA	MEDIUM RISK POPULATION	MEDIUM RISK AREA	LOW/NO* RISK POPULATION	LOW/NO* RISK AREA
Poinsett	.....	.....	.....	.....	.....	.....	25 939	762*
Polk	.....	.....	.....	.....	.....	.....	17 508	860*
Pope	42 387	820	.....	.....	.....	.....	.....	.....
Prairie	.....	.....	.....	.....	.....	.....	10 052	656*
Pulaski	352 946	767	.....	.....	.....	.....	.....	.....
Randolph	.....	.....	.....	.....	.....	.....	16 315	656*
St Francis	.....	.....	.....	.....	.....	.....	31 547	639
Saline	56 244	725	.....	.....	.....	.....	.....	.....
Scott	.....	.....	.....	.....	.....	.....	9 906	897*
Searcy	.....	.....	.....	.....	.....	.....	8 941	668*
Sebastian	.....	.....	.....	.....	.....	.....	97 960	535*
Sevier	.....	.....	.....	.....	.....	.....	14 471	560*
Sharp	.....	.....	.....	.....	.....	.....	15 673	606*
Stone	.....	.....	.....	.....	.....	.....	9 766	606*
Union	49 350	1 053	.....	.....	.....	.....	.....	.....
Van Buren	.....	.....	.....	.....	.....	.....	15 337	709*
Washington	.....	.....	.....	.....	.....	.....	104 872	951*
White	.....	.....	.....	.....	.....	.....	52 827	1 040
Woodruff	.....	.....	.....	.....	.....	.....	10 516	592*
Yell	.....	.....	18 140	931	.....	.....	.....	.....
TOTAL STATE	684 065	5 881	122 524	3 100	126 318	3 882	1 430 734	39 219
							(143 121	2 924)
							(1 287 613	36 295)*

*Less than .5 psi overpressure

STATE OF LOUISIANA - - DIRECT EFFECTS RISK

Estimated 1985 Population: 4,525,019
Land Area: 44,520 square miles

COUNTY	VERY HIGH RISK		HIGH RISK		MEDIUM RISK		LOW/NO* RISK	
	GT 10 PSI POPULATION	AREA	EQ/GT 5PSI LT 10PSI POPULATION	AREA	EQ/GT 2PSI LT 5PSI POPULATION	AREA	EQ/GT .5PSI LT 2PSI POPULATION	AREA
Acadia	59 861	657					21 908	766
Allen								
Ascension	58 862	296			23 808	342		
Assumption								
Avoyelles							43 773	846*
Beauregard								
Bienville							32 564	1 163
Bossier	90 980	845					16 855	815
Caddo	276 755	894						
Calcasieu	176 853	1 081						
Caldwell							11 466	541*
Cameron					10 180	1 417	12 760	732*
Catahoula								
Claiborne	18 483	765					23 966	717*
Concordia								
De Soto							27 693	880
East Baton Rouge	397 601	458						
East Carroll							11 376	426*
East Feliciana							20 727	455
Evangeline							35 372	667
Franklin							24 409	636*
Grant							18 370	653
Iberia							70 124	589*
Iberville	33 300	637						
Jackson							17 125	578*

*Less than .5 psi overpressure

STATE OF LOUISIANA (Continued)

COUNTY	VERY HIGH RISK		HIGH RISK		MEDIUM RISK		LOW/NO* RISK	
	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA
Jefferson	479 824	347						
Jefferson Davis	33 174	655					175 046	270
Lafayette								
LaFourche	89 854	1 141					17 629	638*
LaSalle								
Lincoln					43 102	472		
Livingston							71 703	661
Madison							15 430	631*
Morehouse							35 796	807*
Natchitoches							40 047	1 264*
Orleans	559 384	199					143 485	627*
Ouachita								
Plaquemines	26 882	1 035						
Pointe Coupee	24 933	566						
Rapides	139 793	1 341						
Red River							10 989	394*
Richland							22 884	563*
Sabine							27 588	855*
St Bernard	68 168	486						
St Charles	42 789	286						
St Helena							10 406	409*
St James	22 121	248						
St John Baptist	41 836	213						
St Landry	90 161	936					47 258	749
St Martin								
St Mary							65 424	613*
St Tammany					142 182	873		
Tangipahoa							93 622	783*
Tensas							8 252	623*
Terrebonne							103 873	1 367*

*Less than .5 psi overpressure

STATE OF LOUISIANA (Continued)

COUNTY	VERY HIGH RISK POPULATION	AREA	HIGH RISK POPULATION	AREA	MEDIUM RISK POPULATION	AREA	LOW/NO* RISK POPULATION	AREA
Union	.....		.....		22 551	884	54 232	1 205
Vernillion	.....		.....		.....		.....
Vernon	62 258	1 332	.....		.....		46 376	676*
Washington	.....		.....		.....		.....
Webster	45 935	602	.....		.....		.....
West Baton Rouge	20 678	194	.....		.....		13 224	360*
West Carroll	.....		.....		.....		.....
West Feliciana	13 859	406	.....		.....		17 660	953*
Winn	.....		.....		.....		.....
TOTAL STATE	2 874 344	15 620	----	----	241 823	3 988	1 408 852	24 912
							(521 728	8 284)
							(887 124	16 628)*

*Less than .5 psi overpressure

STATE OF NEW MEXICO -- DIRECT EFFECTS RISK

Estimated 1985 Population: 1,450,783
Land Area: 121,336 square miles

COUNTY	VERY HIGH RISK GT 10 PSI POPULATION	AREA	HIGH RISK EQ/GT 5PSI LT 10PSI POPULATION	MEDIUM RISK EQ/GT 2PSI LT 5PSI POPULATION	LOW/NO* RISK EQ/GT .5PSI LT 2PSI POPULATION	AREA
Bernalillo	456 640	1 169				
Catron					2 781	6 929*
Chaves	60 404	6 066				
Colfax					13 280	3 762*
Curry	44 347	1 408				
DeBaca					2 278	2 323*
Dona Ana	116 120	3 819				
Eddy	55 403	4 184			27 992	3 969*
Grant					4 448	3 032*
Guadalupe						
Harding					946	2 122*
Hidalgo					6 462	3 445*
Lea	68 068	4 390			14 173	4 832*
Lincoln					19 396	109
Los Alamos						
Luna					16 846	2 965*
McKinley	62 558	5 442			4 909	1 930*
Mora						
Otero	50 681	6 626			10 634	2 874*
Quay						
Rio Arriba					32 805	5 856*
Roosevelt				17 008	2 453	
Sandoval					35 678	3 707
San Juan	99 037	5 522			24 909	4 709
San Miguel						

*Less than .5 psi overpressure

STATE OF NEW MEXICO (Continued)

COUNTY	VERY HIGH RISK POPULATION	AREA	HIGH RISK POPULATION	AREA	MEDIUM RISK POPULATION	AREA	LOW/NO* RISK POPULATION	RISK AREA
Santa Fe	82 898	1 905						
Sierra	.....		.....		.....		9 058	4 178*
Socorro	.....		.....		.....		15 027	6 625*
Taos	.....		.....		.....		21 094	2 204*
Torrance	.....		.....		.....		8 397	3 335
Union	.....		.....		.....		5 531	3 830*
Valencia	.....		.....		.....		70 975	5 616
TOTAL STATE	1 096 156	40 531	---	---	17 008	2 453	347 619	78 352
							(159 355	17 476)
							(188 264	60 876)*

*Less than .5 psi overpressure

STATE OF OKLAHOMA - - DIRECT EFFECTS RISK

Estimated 1985 Population: 3,364,919
Land Area: 68,656 square miles

COUNTY	VERY HIGH RISK		HIGH RISK		MEDIUM RISK		LOW/NO* RISK	
	GT 10 PSI POPULATION	AREA	EQ/GT 5PSI LT 10PSI POPULATION	AREA	EQ/GT 2PSI LT 5PSI POPULATION	AREA	EQ/GT .5PSI LT 2PSI POPULATION	AREA
Adair	.....		.....		.....		20 474	577*
Alfalfa	.....		.....		.....		7 148	864
Atoka	.....		.....		.....		13 806	980
Beaver	.....		.....		7 451	1 808		
Beckham	.....		.....		.....		28 439	904
Blaine	.....		.....		.....		14 513	920*
Bryan	.....		.....		.....		32 184	902*
Caddo	34 998	1 286						
Canadian	71 951	902						
Carter	47 692	827						
Cherokee	.....		.....		.....		34 575	748
Choctaw	.....		.....		.....		16 400	763*
Cimarron	.....		.....		.....		4 046	1 842*
Cleveland	160 572	529	.....		.....		5 816	520*
Coal	.....		.....		.....
Comanche	121 146	1 076	.....		.....		6 987	656
Cotton	.....		.....		.....		15 333	763*
Craig	.....		72 149	930	.....		36 008	981
Creek	.....		.....		.....
Custer	.....		.....		.....
Delaware	.....		.....		.....		28 310	720*
Deeey	.....		.....		.....		6 721	1 007*
Ellis	.....		.....		.....		6 483	1 232
Garfield	66 024	1 060	.....		.....
Garvin	31 029	813	.....		.....

*Less than .5 psi overpressure

STATES OF OKLAHOMA (Continued)

COUNTY	VERY HIGH RISK POPULATION	AREA	HIGH RISK POPULATION	AREA	MEDIUM RISK POPULATION	AREA	LOW/NO* RISK POPULATION	AREA
Grady	46 202	1 106	.....	.....
Grant	6 713	1 004
Greer	7 290	638
Harmon	4 422	537*
Harper	4 839	1 039
Haskell	11 927	570*
Hughes	15 085	805
Jackson	30 803	817	.....	.....	.....	.....	.....	.....
Jefferson	8 759	769
Johnston	10 912	639	.....	.....
Kay	53 759	921	.....	.....
Kingfisher	16 877	906*
Kiowa	12 812	1 019
Latimer	10 152	728*
Le Flore	43 438	1 585*
Lincoln	30 539	964	.....	.....	.....	.....	.....	.....
Logan	31 357	748
Love	8 154	519
McClain	25 247	581	.....	.....
McCurtain	35 933	1 826*
McIntosh	17 305	599
Major	9 516	958
Marshall	11 460	372	.....	.....
Mayes	35 187	644*
Murray	13 473	420	.....	.....
Muskogee	70 748	815	.....	.....	.....	.....	.....	.....
Noble	12 129	736*
Nowata	11 552	541	.....	.....	.....	.....	.....	.....
Okfuskee	12 082	628
Oklahoma	635 696	708	.....	.....	.....	.....	.....	.....

*Less than .5 psi overpressure

STATE OF OKLAHOMA (Continued)

COUNTY	VERY HIGH RISK		HIGH RISK		MEDIUM RISK		LOW/NO* RISK	
	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA
Okmulgee	40 403	698					42 658	2 264*
Osage							33 882	465
Ottawa							17 176	551
Pawnee								
Payne	65 992	691						
Pittsburg							43 109	1 251*
Pontotoc							34 762	717
Pottawatomie							62 945	783
Pushmataha							11 880	1 417*
Roger Mills							6 385	1 146
Rogers	56 007	663						
Seminole	29 055	639					33 645	678*
Sequoyah								
Stephens	46 259	885			18 201	2 040		
Texas								
Tillman							11 650	904
Tulsa	519 654	571						
Wagoner	52 032	559					52 984	423
Washington								
Washita	17 419	1 006						
Woods							10 827	1 291*
Woodward	23 371	1 242						

TOTAL STATE	2 162 942	17 312	72 149	930	186 705	7 887	943 123	42 527
							(487 142	20 080)
							(455 981	22 447)*

*Less than .5 psi overpressure

STATE OF TEXAS - - DIRECT EFFECTS RISK

Estimated 1985 Population: 16,426,000

Land Area: 261,989 square miles

COUNTY	VERY HIGH RISK GT 10 PSI		HIGH RISK EQ/GT 5PSI LT 10PSI		MEDIUM RISK EQ/GT 2PSI LT 5PSI		LOW/NO* RISK EQ/GT .5PSI LT 2PSI	
	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA
Anderson		47 651	1 077*
Andrews		16 609	1 501*
Angelina		69 361	807*
Araucaria		17 801	280
Archer		8 179	907
Armstrong			
Atascosa		28 715	1 218
Austin		21 150	656
Bailey		8 227	827
Bandera		8 732	793*
Bastrop			
Baylor		5 126	862*
Bee	29 378	880	32 710	895	.....		
Bell	169 465	1 055			.....		
Bexar	1 117 869	1 248			.....		
Blanco		5 508	714*
Borden		1 003	900*
Bosque		14 289	989
Bowie	80 151	891			.....		
Brazoria	190 191	1 407			.....		
Brazos		123 285	588
Brewster		8 213	6 169*
Briscoe		2 266	887*
Brooks		9 279	942*
Brown		36 336	936*

*Less than .5 psi overpressure

STATE OF TEXAS (Continued)

COUNTY	VERY HIGH RISK POPULATION	AREA	HIGH RISK POPULATION	AREA	MEDIUM RISK POPULATION	AREA	LOW/NO* RISK POPULATION	AREA
Burleson		15 837	668
Burnet		22 587	994
Calwell	27 133	546	.....		.....
Calhoun	22 997	540	.....		.....
Callahan		13 009	899
Cameron	248 893	905	.....		.....
Camp		10 465	203	.....		
Carson	7 188	924	.....		.....
Cass		30 977	937
Castro		10 177	899*
Chambers	20 132	616	.....		.....
Charokey		39 769	1 052
Childress		6 452	707*
Clay		9 871	1 085		
Cochran		4 732	775*
Coke		3 706	908*
Coleman		10 468	1 277*
Collin		187 101	851		
Collingsworth		4 072	909*
Colorado		20 306	964*
Comal		44 827	555		
Comanche		13 217	930*
Concho		2 977	992*
Cooke		29 097	893*
Coryell	58 932	1 057	.....		.....
Cottle		2 633	895*
Crane		5 350	782
Crockett		5 035	2 806*
Crosby		8 432	898
Culberson		3 509	3 815*

*Less than .5 psi overpressure

STATE OF TEXAS (Continued)

COUNTY	VERY HIGH RISK		HIGH RISK		MEDIUM RISK		LOW/NO* RISK	
	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA
Dallam	6 796	1 505*
Dallas	1 765 074	880	.....	.....	.....	.....	17 059	903*
Dawson	20 205	1 497*
Deaf Smith	4 944	279*
Delta
Denton	174 001	911	20 656	910
De Witt	3 090	907*
Dickens
Dimmit	12 065	1 307	.....	.....	.....	.....	4 208	929*
Donley
Duval	13 548	1 795*
Eastland	21 466	924*
Ector	151 738	903	.....	.....	.....	.....	2 168	2 102*
Edwards	69 192	939
Ellis
El Paso	538 075	1 014	.....	.....	.....	.....	24 905	1 080*
Erath	18 274	770
Falls	24 681	895
Fannin	20 407	950
Fayette	5 741	807*
Fisher	8 802	992*
Floyd	1 849	703*
Foard	7 415	294
Fort Bend	191 398	876	.....	.....	.....	.....	17 218	888*
Franklin	14 644	1 133*
Freestone	14 581	1 504*
Frio
Gaines	5 720	895*
Galveston	220 341	399	.....	.....	.....	.....	.....	.....
Garza

*Less than .5 psi overpressure

STATE OF TEXAS (Continued)

COUNTY	VERY HIGH RISK		HIGH RISK		MEDIUM RISK		LOW/NO* RISK	
	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA
Gillespie	15 622	1 061*
Glascocock	1 251	900*
Goliad	5 897	859	.....	.....
Gonzales	19 081	1 068	.....	.....	.....	.....	.....	.....
Gray	27 503	921	.....	.....
Grayson	95 891	934*
Gregg	114 058	273	.....	.....	.....	.....	17 968	799*
Grimes
Guadalupe	54 862	713	.....	.....
Hale	37 243	1 005
Hall	4 963	876*
Hamilton	8 136	836*
Hansford	6 590	921*
Harden	6 589	688*
Hardin	44 075	898	.....	.....	.....	.....	.....	.....
Harris	2 831 639	1 734	.....	.....	.....	.....	3 633	1 462*
Harrison	58 471	908	.....	.....	.....	.....	7 515	901*
Hartley	51 765	678
Haskell
Hays	6 418	903*
Hemphill	52 080	888*
Henderson	27 335	968*
Hidalgo	350 518	1 569	.....	.....	.....	.....	.....	.....
Hill
Hockley	24 809	908	.....	.....
Hood	25 815	425*
Hopkins	28 369	789
Houston	23 673	1 234*
Howard	38 311	901*
Hudspeth	2 620	4 566*

*Less than .5 psi overpressure

STATE OF TEXAS (Continued)

COUNTY	VERY HIGH RISK		HIGH RISK		MEDIUM RISK		LOW/NO* RISK	
	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA
Hunt	65 278	840					1 800	1 052*
Hutchinson	30 287	871					7 639	920
Irion								
Jack								
Jackson					13 946	844		
Jasper					32 469	921	1 770	2 258*
Jeff Davis								
Jefferson	280 403	937					5 464	1 136*
Jim Hogg							40 710	867
Jim Wells								
Johnson							85 375	731
Jones							18 960	931
Karnes					13 498	753	49 484	788
Kaufman							13 788	663*
Kendall								
Kenedy							485	1 389*
Kent							1 100	878*
Kerr							33 638	1 107*
Kimble							4 297	1 250*
King							430	914*
Kinney							2 407	1 359
Kleberg	34 983	853					5 583	845*
Knox							44 953	919*
Lamar							17 077	1 013
Lamb								
Lampasas							13 753	714
La Salle							5 960	1 517*
Lavaca							18 238	971
Lee							14 220	631*
Leon							11 710	1 078*

*Less than .5 psi overpressure

STATE OF TEXAS (Continued)

COUNTY	VERY HIGH RISK		HIGH RISK		MEDIUM RISK		LOW/NO* RISK	
	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA
Liberty	55 859	1 174
Limestone	21 699	931*
Lipscomb	4 310	933*
Live Oak	9 872	1 057	.....	.....	.....	.....	.....	.....
Llano	12 072	939	.....	.....
Loving	75	671*
Lubbock	220 637	900	.....	.....	.....	.....	7 834	888
Lynn	8 849	1 071*
McCulloch
McLennan	184 912	1 031	.....	.....	.....	.....	.....	.....
McMullen	934	1 163	12 236	473*
Madison
Marion	10 734	385	5 451	914*
Martin	3 526	934*
Mason
Matagorda	37 618	1 127	36 420	1 287
Maverick	25 049	1 331
Medina	2 408	902*
Menard
Midland	121 309	902	.....	.....
Milan	23 556	1 019	4 590	748*
Mills	9 286	912*
Mitchell	18 758	928*
Montague
Montgomery	168 161	1 047	.....	.....
Moore	17 728	905
Morris	15 523	256	.....	.....	.....	.....	1 820	959*
Motley	51 584	939*
Nacogdoches	39 336	1 068*
Navarro

*Less than .5 psi overpressure

STATE OF TEXAS (Continued)

COUNTY	VERY HIGH RISK POPULATION	AREA	HIGH RISK POPULATION	AREA	MEDIUM RISK POPULATION	AREA	LOW/NO* RISK POPULATION	AREA
Newton	.....		.....		.....		13 436	935
Nolan	.....		.....		.....		18 011	915
Nueces	305 867	847	.....		.....		.....	.....
Ochiltree	.....		.....		.....		11 484	919*
Oldham	.....		.....		.....		2 436	1 485
Orange	91 432	362	.....		.....		.....	.....
Palo Pinto	.....		.....		.....		26 766	949
Panola	23 148	812	.....		.....		54 135	902
Parker	.....		.....		.....		10 776	885
Parmer	.....		.....		.....		.....	.....
Pecos	.....		.....		.....		17 658	4 776*
Polk	.....		.....		.....		30 680	1 061*
Potter	108 666	902	.....		.....		.....	.....
Presidio	.....		.....		.....		5 405	3 857*
Rains	.....		.....		.....		5 979	243
Randall	.....		.....		85 692	917	.....	.....
Reagan	.....		.....		.....		5 065	1 173*
Real	.....		.....		.....		2 784	697*
Red River	.....		.....		.....		15 696	1 054*
Reeves	.....		.....		.....		15 924	2 626*
Refugio	.....		.....		.....		9 225	771
Roberts	.....		.....		.....		1 062	915*
Robertson	.....		.....		.....		.....	.....
Rockwall	16 266	864	.....		.....		20 181	128
Runnels	.....		.....		.....		12 504	1 056
Rusk	44 629	932	.....		.....		.....	.....
Sabine	.....		.....		.....		9 975	486*
San Augustine	.....		.....		.....		8 887	524*
San Jacinto	.....		.....		.....		14 075	572*
San Patricio	64 171	693	.....		.....		.....	.....

*Less than .5 psi overpressure

STATE OF TEXAS (Continued)

COUNTY	VERY HIGH RISK		HIGH RISK		MEDIUM RISK		LOW/NO* RISK	
	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA
San Saba	.....	.....	.....	.....	.....	.....	6 003	1 136*
Schleicher	.....	.....	.....	.....	.....	.....	3 314	1 309*
Scurry	.....	.....	.....	.....	.....	.....	20 589	900*
Shackelford	.....	.....	.....	.....	.....	.....	4 096	915*
Shelby	.....	.....	.....	.....	.....	.....	24 040	791*
Sherman	.....	.....	.....	.....	.....	.....	3 235	923*
Smith	148 646	932	.....	.....	.....	.....	.....	.....
Somervell	.....	.....	.....	.....	.....	.....	4 528	188*
Starr	.....	.....	.....	.....	.....	.....	33 795	1 226*
Stephens	.....	.....	.....	.....	.....	.....	10 829	894
Sterling	.....	.....	.....	.....	.....	.....	1 641	923*
Stonewall	.....	.....	.....	.....	.....	.....	2 466	925*
Sutton	.....	.....	.....	.....	.....	.....	5 948	1 455*
Swisher	.....	.....	.....	.....	.....	.....	8 860	902*
Tarrant	1 047 540	868	.....	.....	.....	.....	.....	.....
Taylor	126 136	917	.....	.....	.....	.....	1 465	2 357*
Terrell	.....	.....	.....	.....	.....	.....	15 475	886*
Terry	.....	.....	.....	.....	.....	.....	2 384	912*
Throckmorton	.....	.....	.....	.....	.....	.....	.....	.....
Titus	23 389	412	.....	.....	.....	.....	.....	.....
Tom Green	98 791	1 515	.....	.....	.....	.....	.....	.....
Travis	518 971	989	.....	.....	.....	.....	11 631	692*
Trinity	.....	.....	.....	.....	.....	.....	18 854	922*
Tyler	.....	.....	.....	.....	.....	.....	33 233	587
Upshur	.....	.....	.....	.....	.....	.....	.....	.....
Upton	.....	.....	.....	.....	.....	.....	5 783	1 243
Uvalde	.....	.....	.....	.....	.....	.....	24 016	1 564
Val Verde	41 253	3 150	.....	.....	.....	.....	.....	.....
Van Zandt	.....	.....	.....	.....	.....	.....	37 028	855
Victoria	.....	.....	.....	.....	.....	.....	75 901	887

*Less than .5 psi overpressure

STATE OF TEXAS (Continued)

COUNTY	VERY HIGH RISK POPULATION	AREA	HIGH RISK POPULATION	AREA	MEDIUM RISK POPULATION	AREA	LOW/NO* RISK POPULATION	AREA
Walker	.....		.....		.....		52 221	786*
Waller	.....		.....		.....		24 262	514*
Ward	.....		.....		.....		16 495	836*
Washington	.....		.....		.....		25 426	610*
Webb	.....		.....		.....		122 888	3 363*
Wharton	.....		.....		.....		41 409	1 086
Wheeler	.....		.....		.....		8 502	905*
Wichita	127 426	606	.....		.....		.....	.....
Wilbarger	.....		.....		.....		16 904	947*
Willacy	.....		.....		.....		18 857	589
Williamson	.....		.....		.....		101 812	1 137
Wilson	.....		.....		18 710	807	.....	.....
Winkler	.....		.....		.....		11 236	840*
Wise	31 679	902	.....		.....		.....	.....
Wood	27 986	689	.....		.....		.....	.....
Yoakum	.....		.....		.....		9 654	800*
Young	20 063	919	.....		.....		.....	.....
Zapata	.....		.....		.....		8 344	999*
Zavala	.....		.....		12 247	1 289	.....	.....
TOTAL STATE	11 956 816	45 954	43 175	1 098	1 081 754	19 826	3 344 255	195 111
							(1 536 202	49 915)
							(1 808 053	145 196)*

*Less than .5 psi overpressure

F E M A R E G I O N V I I - - D I R E C T E F F E C T S R I S K S U M M A R Y

Estimated 1985 Population: 11,925,241
Land Area: 282,971 square miles

STATE	VERY HIGH RISK GT 10 PSI		HIGH RISK EQ/GT 5PSI LT 10PSI		MEDIUM RISK EQ/GT 2PSI LT 5PSI		LOW/NO* RISK EQ/GT .5PSI LT 2PSI	
	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA
Iowa	960 992	5 919	---	---	88 306	953	1 857 641 (312 608)	49 092 7 716)
Kansas	1 241 903	14 109	311 640	2 946	74 253	3 488	(1 545 033)	41 376)*
Missouri	3 023 895	14 553	56 232	1 140	340 392	3 831	827 137 (363 362)	61 249 17 582)
Nebraska	420 964	7 770	11 953	2 158	448 230	2 078	(463 775)	43 667)*
							1 548 038 (298 592)	49 052 10 821)
							(1 249 456)	38 231)*
							734 264 (79 485)	64 633 5 168)
							(654 779)	59 465)*

TOTAL REGION VII 5 647 754 42 351 379 225 6 244 951 181 10 350 4 967 080 224 026
(1 054 037)
(3 913 043 182 739)*

*Less than .5 psi overpressure

STATE OF IOWA - DIRECT EFFECTS RISK

Estimated 1985 Population: 2,906,939

Land Area: 55,964 square miles

COUNTY	VERY HIGH RISK		HIGH RISK		MEDIUM RISK		LOW/NO* RISK	
	GT 10 PSI POPULATION	AREA	EQ/GT 5PSI LT 10PSI POPULATION	AREA	EQ/GT 2PSI LT 5PSI POPULATION	AREA	EQ/GT .5PSI LT 2PSI POPULATION	AREA
Adair		9 171	569*
Adams		5 535	425*
Allamakee		15 188	633*
Appanoose		14 710	498*
Audubon		8 169	444*
Benton		22 898	719
Black Hawk		136 865	573*
Boone		25 946	573*
Bremer		24 669	439*
Buchanan		22 900	572*
Buena Vista		21 016	575*
Rutler		17 310	582*
Calhoun		12 866	571*
Carroll		22 915	570*
Cass		17 077	565*
Cedar		18 790	582*
Cerro Gordo		48 580	569*
Cherokee		15 621	577*
Chickasaw		15 018	505*
Clarke		8 787	431*
Clay		19 165	569*
Clayton		21 245	778*
Clinton			
Crawford		19 448	714*
Dallas		29 750	591

*Less than .5 psi overpressure

STATE OF IOWA (Continued)

COUNTY	VERY HIGH RISK		HIGH RISK		MEDIUM RISK		LOW/NO* RISK	
	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA
Davis		9 276	504*
Decatur		9 232	535*
Delaware		19 169	578*
Des Moines	44 964	414						
Dickinson		15 710	381*
Dubuque		91 209	607*
Emmet		12 838	394*
Fayette		24 668	731*
Floyd		18 980	502*
Franklin		12 521	583*
Fremont		9 238	515
Greene		11 579	571*
Grundy		13 743	501*
Guthrie		11 507	590*
Hamilton		17 290	576*
Hancock		13 559	571*
Hardin		21 564	569*
Harrison		15 855	698
Henry		18 755	436
Howard		10 877	473*
Humboldt		11 872	437*
Ida		8 852	432*
Iowa		15 135	587
Jackson	22 405	618						
Jasper		36 039	731*
Jefferson		16 445	440*
Johnson		85 564	614
Jones		20 530	576*
Keokuk		12 511	580*
Kossuth		21 303	974*

*Less than .5 psi overpressure

STATE OF IOWA (Continued)

COUNTY	VERY HIGH RISK POPULATION	VERY HIGH RISK AREA	HIGH RISK POPULATION	HIGH RISK AREA	MEDIUM RISK POPULATION	MEDIUM RISK AREA	LOW/NO* RISK POPULATION	LOW/NO* RISK AREA
Lee	42 782	522					12 205	402
Linn	169 437	724					10 127	432*
Louis							12 755	508
Lucas								
Lyon								
Madison							12 297	563
Mahaska							23 124	571*
Marion							30 300	560*
Marshall							41 544	573*
Mills	13 842	439						
Mitchell							11 817	469*
Monona							11 292	697
Monroe							8 779	434*
Montgomery							13 273	424*
Muscatine							42 285	442
O'Brien							16 817	572*
Osceola							8 173	398*
Page							18 930	535*
Palo Alto							12 148	562*
Plymouth							24 479	864
Pocahontas							10 841	577*
Polk	313 620	582						
Pottawattamie					88 306	953	18 716	585*
Poweshiek							5 797	536*
Ringgold								
Sac							13 394	576*
Scott	161 427	459						
Shelby							14 675	591*
Sioux							31 399	769*
Story							73 036	574*

*Less than .5 psi overpressure

STATE OF IOWA (Continued)

COUNTY	VERY HIGH RISK		HIGH RISK		MEDIUM RISK		LOW/NO* RISK	
	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA
Tama	18 964	722*
Taylor	8 297	537*
Union	13 855	426*
Van Buren	8 281	484
Wapello	39 386	434*
Warren	35 956	573	.....	.....	.....	.....	.....	.....
Washington	20 041	570*
Wayne	7 837	527*
Webster	43 236	718*
Winnabago	12 850	401*
Winneshiek	22 264	690*
Woodbury	101 027	873	.....	.....	.....	.....	8 906	401*
Worth	15 861	578*
Wright

TOTAL STATE

960 992 5 919

88 306

953

1 857 641 49 092
 (312 608 7 716)
 (1 545 033 41 376(*)

*less than .5 psi overpressure

STATE OF KANSAS -- DIRECT EFFECTS RISK SUMMARY

Estimated 1985 Population: 2,454,933
Land Area: 81,792 square miles

COUNTY	VERY HIGH RISK GT 10 PSI		HIGH RISK EQ/GT 5PSI LT 10PSI		MEDIUM RISK EQ/GT 2PSI LT 5PSI		LOW/NO* RISK EQ/GT .5PSI LT 2PSI	
	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA
Allen		16 160	505	.....		8 867	583*
Anderson		17 964	431
Atchison		7 351	1 136*
Barber		33 523	895*
Barton		15 817	638*
Bourbon
Brown	11 563	571	.....		.....		.....	.....
Betler	47 629	1 443	.....		.....		3 324	777*
Chase		4 937	644*
Chautauqua
Cherokee		22 307	590
Cheyenne		3 687	1 021*
Clark		2 726	976*
Clay		9 546	632
Cloud		12 024	718*
Coffey		10 139	615*
Comanche		2 592	790*
Cowley	37 379	1 128	.....		.....		38 049	595
Crawford		4 658	894*
Decatur
Dickinson		19 972	852
Doniphan		9 005	388	.....		70 265	461
Douglas		4 107	620*
Edwards		3 635	650*
Elk

*Less than .5 psi overpressure

STATE OF KANSAS (Continued)

COUNTY	VERY HIGH RISK		HIGH RISK		MEDIUM RISK		LOW/NO* RISK	
	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA
Ellis	29 329	377					29 004	900*
Ellsworth							6 362	717
Finney							30 041	1 302*
Ford							26 636	1 099*
Franklin							22 337	577
Geary								
Gove							3 688	1 072*
Graham							4 256	898*
Grant							6 782	575*
Gray							5 373	868*
Greene			1 917	778				
Greenwood							8 732	1 135*
Hamilton							2 499	998
Harper							7 767	802*
Harvey							31 144	541
Haskell							3 876	578*
Hodgeman							2 265	860*
Jackson							11 502	658
Jefferson					16 072	536		
Jewell							4 396	916
Johnson			302 948	478				
Kearny							3 901	868
Kingman							9 141	866*
Kiowa							4 011	723*
Labette	25 690	653						
Lane							2 560	717*
Leavenworth	58 999	463					3 771	720*
Lincoln							8 342	601
Linn							3 458	1 073
Logan								

*Less than .5 psi overpressure

STATE OF KANSAS (Continued)

COUNTY	VERY HIGH RISK POPULATION	VERY HIGH RISK AREA	HIGH RISK POPULATION	HIGH RISK AREA	MEDIUM RISK POPULATION	MEDIUM RISK AREA	LOW/NO* RISK POPULATION	LOW/NO* RISK AREA
Lyon	27 785	900					38 382	844*
McPherson								
Marion							13 316	944*
Marshall							13 157	878*
Meade							4 852	979*
Miami							22 370	590
Mitchell							7 879	717*
Montgomery	42 372	646					6 294	693
Morris							3 551	731*
Morton								
Nemaha							11 148	719
Necaho	19 665	576					4 719	1 075*
Ness							6 530	873
Norton								
Osage					16 345	695		
Ozborne							5 677	882*
Ottawa							5 823	721
Pawnee							8 369	725*
Phillips	7 276	887						
Pottawatomie	15 954	828						
Pratt							11 255	735*
Rawlins							3 990	1 069*
Reno	64 889	1 259					7 034	719*
Republic							11 669	728
Rice								
Riley	63 181	593					6 958	888
Rooks							4 427	718*
Rush							9 344	869*
Russell								
Saline	50 557	721						

*Less than .5 psi overpressure

STATE OF KANSAS (Continued)

COUNTY	VERY HIGH RISK		HIGH RISK		MEDIUM RISK		LOW/NO* RISK	
	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA
Scott	.....	.....	.....	.....	.....	.....	5 905	717*
Sedgewick	385 098	1 007	.....	.....	.....	.....	.....	.....
Seward	18 408	640	.....	.....	.....	.....	.....	.....
Shawnee	160 006	549	.....	.....	.....	.....	3 435	896*
Sheridan	.....	.....	.....	.....	.....	.....	.....	.....
Sherman	.....	.....	.....	.....	.....	.....	7 425	1 057*
Smith	.....	.....	.....	.....	.....	.....	5 576	897*
Stafford	.....	.....	.....	.....	.....	.....	5 886	788*
Stanton	.....	.....	.....	.....	.....	.....	2 451	681*
Stevens	.....	.....	.....	.....	.....	.....	4 863	727
Sumner	.....	.....	.....	25 457	1 184	.....	9 160	1 075
Thomas	.....	.....	.....	.....	.....	.....	4 428	890
Trego	.....	.....	.....	.....	.....	.....	.....	.....
Wabaunsee	.....	6 775	797	.....	.....	.....	2 075	914
Wallace	.....	.....	.....	.....	.....	.....	.....	.....
Washington	.....	.....	.....	.....	.....	.....	7 890	898*
Wichita	2 684	719	.....	.....	.....	.....	.....	.....
Wilson	.....	.....	.....	11 722	575	.....	.....	.....
Woodson	.....	.....	.....	4 657	498	.....	.....	.....
Wyandotte	172 339	149	.....	.....	.....	.....	.....	.....
TOTAL STATE	1 241 903	14 109	311 640	2 946	74 253	3 488	827 137	61 249
							(363 362	17 582)
							(463 775	43 667)*

*Less than .5 psi overpressure

STATE OF MISSOURI - - DIRECT EFFECTS RISK

Estimated 1985 Population: 4,968,558
Land Area: 68,576 square miles

COUNTY	VERY HIGH RISK		HIGH RISK		MEDIUM RISK		LOW/NO* RISK	
	CT 10 PSI POPULATION	AREA	EQ/GT 5PSI LT 10PSI POPULATION	AREA	EQ/GT 2PSI LT 5PSI POPULATION	AREA	EQ/GT .5PSI LT 2PSI POPULATION	AREA
Adair	.....		.....		.....		25 447	567*
Andrew	.....		.....		15 285	436	8 640	542*
Atchison	.....		.....		.....		25 774	697*
Audrain	.....		.....		.....		26 082	773*
Barry	.....		.....		.....
Barton	.....		.....		.....		11 620	597
Bates	15 991	849	.....		.....
Benton	12 507	729	.....		.....		10 414	621*
Bollinger	.....		.....		.....
Boone	.....		.....	107 479	687			
Buchanan	86 001	409	.....		.....		38 514	698*
Butler	.....		.....		.....		8 099	431*
Calderwell	.....		.....		.....
Callaway	33 202	542	.....		.....		23 226	641
Camden	.....		.....		.....
Cape Girardeau	.....		.....		.....		60 804	577*
Carroll	.....		.....		.....		11 543	695
Carter	.....		.....		.....		5 705	509*
Cass	55 154	702	.....		.....
Cedar	12 412	471	.....		.....
Chariton	.....		.....		.....		10 258	758*
Christian	.....		.....		.....		24 655	564
Clark	.....		.....		.....		8 254	507
Clay	138 910	403	.....		.....
Clinton	.....		.....		.....		16 139	423

*Less than .5 psi overpressure

STATE OF MISSOURI (Continued)

COUNTY	VERY HIGH RISK		HIGH RISK		MEDIUM RISK		LOW/NO* RISK	
	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA
Cole	61 687	392						
Cooper	14 592	566					19 043	744
Crawford							7 533	491
Dade							12 760	543*
Dallas								
Davies							8 648	568*
DeKalb							8 127	425
Dent							14 934	755*
Douglas							12 608	814*
Dunklin			35 924	547				
Franklin	74 755	922						
Gasconade							13 677	521*
Gentry							7 919	493*
Greene							194 885	678*
Grundy							11 542	437*
Harrison							9 919	725*
Henry	19 582	729						
Hickory					7 044	379		
Holt							6 649	456
Howard					9 972	464		
Howell								
Iron							30 461	927*
Jackson	634 530	611					11 542	552*
Jasper								
Jefferson							89 889	641*
					158 515	661		
Johnson	38 244	834						
Knox							5 277	507*
LaCade							26 106	768
LaFayette	30 315	632						
Lawrence							30 322	614*

*Less than .5 psi overpressure

STATE OF MISSOURI (Continued)

COUNTY	VERY HIGH RISK POPULATION	AREA	HIGH RISK POPULATION	AREA	MEDIUM RISK POPULATION	AREA	LOW/NO* RISK POPULATION	RISK AREA
Lewis		11 165	508*
Lincoln		24 138	627
Linn		15 542	620*
Livingston		15 532	537*
McDonald		15 830	541*
Macon		17 010	797*
Madison		11 008	497*
Marion		7 896	528*
Marion		29 304	438*
Mercer		4 597	454*
Miller		20 308	593	.....		15 770	410*
Mississippi
Moniteau	12 906	417	.....		.....		9 699	670*
Monroe		11 566	540*
Montgomery
Morgan	15 540	594	.....		.....		22 345	658
New Madrid		43 026	627*
Newton		22 573	875*
Nodaway		10 036	792*
Oregon		12 200	606
Osage		8 858	731*
Ozark		17 125	473*
Penicott	24 155	517	.....		.....		.....	.....
Perry
Pettis	35 726	686	.....		.....		.....	.....
Phelps		35 514	674
Pike		16 953	673*
Platte	49 863	421	.....		.....		.....	.....
Polk		20 220	636
Pulaski	44 051	550	.....		.....		.....	.....

*Less than .5 psi overpressure

STATE OF MISSOURI (Continued)

COUNTY	VERY HIGH RISK POPULATION	AREA	HIGH RISK POPULATION	AREA	MEDIUM RISK POPULATION	AREA	LOW/NO* RISK POPULATION	AREA
Purnam		5 858	520*
Ralls		9 076	481*
Randolph		26 165	477*
Ray		21 878	568		
Reynolds		7 162	808*
Ripley		12 767	632*
St Charles	166 248	558	.....		.....
St Clair	8 667	698	.....		.....		15 238	504*
Ste Genevieve		43 670	451*
St Francois			
St Louis	990 381	505	.....		.....		4 721	308*
Saline	25 067	755	.....		.....		5 278	439*
Schuyler		40 428	423*
Scotland			
Scott		8 095	1 004*
Shannon		7 652	501*
Shelby		28 536	818*
Stoddard		17 337	451*
Stone		7 134	651*
Sullivan			
Taney		24 151	608*
Texas		21 640	1 108
Vernon		19 850	837
Warren		16 799	429*
Washington		18 661	762*

*Less than .5 psi overpressure

STATE OF MISSOURI (Continued)

COUNTY	VERY HIGH RISK		HIGH RISK		MEDIUM RISK		LOW/NO* RISK	
	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA
Wayne	.....	.....	.....	.....	.....	.....	11 804	763*
Webster	.....	.....	.....	.....	.....	.....	21 915	594*
North	.....	.....	.....	.....	.....	.....	2 968	266*
Wright	.....	.....	.....	.....	.....	.....	16 431	682*
St Louis (City)	423 409	61						
TOTAL STATE	3 023 895	14 553	56 232	1 140	340 393	3 831	1 548 038	49 052
							(298 582	10 821)
							(1 299 456	38 231)*

*Less than .5 psi overpressure

STATE OF NEBRASKA - - DIRECT EFFECTS RISK

Estimated 1985 Population: 1,614,811
Land Area: 76,639 square miles

COUNTY	VERY HIGH RISK		HIGH RISK		MEDIUM RISK		LOW/NO* RISK	
	GT 10 PSI POPULATION	AREA	EQ/GT 5PSI LT 10PSI POPULATION	AREA	EQ/GT 2PSI LT 5PSI POPULATION	AREA	EQ/GT .5PSI LT 2PSI POPULATION	AREA
Adams		31 141	564
Antelope		8 726	859*
Arthur		475	710*
Banner	1 084	747	.....		.....		775	714*
Blaine		7 343	687*
Boone		14 324	1 077*
Box Butte		3 325	532*
Boyd		4 287	1 214*
Brown		38 764	948*
Buffalo		8 741	486*
Burt		9 139	584
Butler		21 808	557
Cass		11 255	740*
Cedar		4 924	893*
Chase		6 867	5 961*
Cherry		10 046	1 196
Cheyenne		7 815	574
Clay		9 545	410*
Colfax		11 447	575*
Cuming		13 677	2 571*
Custer	17 369	258	.....		.....		9 362	1 397*
Dakota		22 298	982*
Dawes		2 358	437
Deuel		*Less than .5 psi overpressure	

STATE OF NEBRASKA (Continued)

COUNTY	VERY HIGH RISK POPULATION	AREA	HIGH RISK POPULATION	AREA	MEDIUM RISK POPULATION	AREA	LOW/NO* RISK POPULATION	RISK AREA
Dixon		6 864	474*
Dodge		35 764	534*
Douglas		413 626	333		
Dundy		2 894	920*
Fillmore		7 732	576*
Franklin		4 293	576*
Frontier		3 632	976*
Furnas		6 536	721*
Gage		23 940	858*
Garden		2 725	1 680	.....		
Garfield		2 422	570*
Gosper		2 160	461*
Grant		878	775*
Grealey		3 320	570*
Hall	50 376	537	.....		.....
Hamilton		9 232	542	4 288	555*
Harlan		1 316	714*
Hayes		3 965	709*
Hitchcock		14 004	2 406*
Holt			
Hooker		1 024	720*
Howard		6 707	564
Jefferson		9 535	575*
Johnson		5 057	376*
Kearney		6 690	519*
Keith		9 138	1 039*
Keya Paha		1 237	769*
Kimball	4 967	952	.....		.....
Knox		11 198	1 105*
Lancaster	205 512	839	.....		.....

*Less than .5 psi overpressure

STATE OF NEBRASKA (Continued)

COUNTY	VERY HIGH RISK		HIGH RISK		MEDIUM RISK		LOW/NO* RISK	
	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA
Lincoln	34 217	2 525*
Logan	969	571*
Loup	897	574*
McPherson	561	859*
Madison	32 468	575*
Merrick	8 628	478	.....	.....	.....	.....
Morrill	6 029	1 405	.....	.....	.....	.....	4 594	439*
Nance	8 330	408*
Nebraska	6 792	576*
Nuckolls
Otoe	15 120	615*
Pawnee	3 695	432*
Perkins	3 813	885*
Phelps	10 198	540*
Pierce	8 514	575*
Platte	29 752	669*
Polk	5 973	437*
Red Willow	12 999	718*
Richardson	10 905	553
Rock	2 456	1 003*
Saline	13 066	576
Sarpy	95 470	238	.....	.....	.....	.....	18 574	783*
Sanders
Scotts Bluff	38 419	725	.....	.....	15 820	575	.....	.....
Seward
Sheridan	7 807	2 453*
Sherman	3 972	564*
Sioux	1 738	2 069	.....	.....	.....	.....	6 437	431*
Stanton	7 463	575*
Thayer

*Less than .5 psi overpressure

STATE OF NEBRASKA (Continued)

COUNTY	VERY HIGH RISK		HIGH RISK		MEDIUM RISK		LOW/NO* RISK	
	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA
Thomas	.....	.....	.....	.....	.....	.....	965	714*
Thurston	.....	.....	.....	.....	.....	.....	.....	.....
Valley	.....	.....	.....	.....	7 194	391	5 871	567*
Washington	.....	.....	.....	.....	.....	.....	15 464	386*
Wayne	.....	.....	.....	.....	.....	.....	9 801	443*
Webster	.....	.....	.....	.....	.....	.....	4 787	575*
Wheeler	.....	.....	.....	.....	.....	.....	1 101	575*
York	.....	.....	.....	.....	.....	.....	15 046	576*
TOTAL STATE	420 964	7 770	11 353	2 158	448 230	2 078	734 264	64 633
							(79 485	5 168)
							(654 779	59 465)*

*Less than .5 psi overpressure

P E N A R E G I O N V I I I - - D I R E C T E F F E C T S R I S K S U M M A R Y

Estimated 1985 Population: 7,709,731
Land Area: 573,497 square miles

STATE	VERY HIGH RISK GT 10 PSI		HIGH RISK EQ/GT 5PSI LT 10PSI		MEDIUM RISK EQ/GT 2PSI LT 5PSI		LOW/NO* RISK EQ/GT .5PSI LT 2PSI	
	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA
Colorado	2 129 554	21 244	420 758	768	11 157	559	688 649	81 081
							(174 065	19 414)
Montana	419 999	47 939	---	---	30 641	13 978	(514 044	61 677)*
							382 232	83 448
							(83 619	20 524)
North Dakota	481 812	33 890	11 496	3 744	4 752	1 036	(298 613	69 924)*
							(199 516	30 674
							(65 257	5 394)
South Dakota	290 207	20 782	2 493	1 969	---	---	(134 259	25 280)*
							(416 028	53 205
							(47 051	10 623)
Utah	1 137 432	17 388	28 848	4 479	71 167	5 069	(368 977	42 582)*
							461 420	55 158
							(282 697	9 366)
							(178 723	45 792)*
Wyoming	313 177	51 368	6 058	2 856	5 572	4 871	196 763	37 991
							(30 328	4 286)
							(166 435	33 703)*
TOTAL REGION VIII	4 772 181	192 611	469 653	13 816	123 289	25 513	1 944 608	341 557
							(583 017	69 607)
							(261 591	271 950)*

*Less than .5 psi overpressure

STATE OF COLORADO - - DIRECTS EFFECTS RISK

Estimated 1985 Population: 3,250,118
Land Area: 103,652 square miles

COUNTY	VERY HIGH RISK GT 10 PSI		HIGH RISK EQ/GT 5PSI LT 10PSI		MEDIUM RISK EQ/GT 2PSI LT 5PSI		LOW/NO* RISK EQ/GT .5PSI LT 2PSI	
	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA
Adams	277 973	1 235	.....	.....	.....	.....	12 588	719*
Alamosa
Arapahoe	378 836	800	.....	.....	.....	.....	5 798	1 353*
Archuleta	5 133	2 554*
Baca
Bent	5 913	1 008*
Boulder	213 665	742	.....	.....	.....	.....	12 793	1 008*
Chaffee	2 475	1 783*
Cheyenne	7 283	397*
Clear Creek
Conejos	8 148	1 285*
Costilla	3 564	1 227*
Crowley	3 282	790*
Custer	1 952	740*
Delta	24 615	1 141*
Denver	507 548	111	.....	.....	.....	.....	1 792	1 064*
Dolores	35 853	841*
Douglas	17 085	1 690*
Eagle	8 500	1 851
Elbert
El Paso	358 941	2 129	.....	.....	.....	.....	31 488	1 538
Fremont	28 651	2 952
Garfield	2 822	149
Gilpin	9 077	1 854*
Grand

*Less than .5 psi overpressure

STATE OF COLORADO (Continued)

COUNTY	VERY HIGH RISK		HIGH RISK		MEDIUM RISK		LOW/NO* RISK	
	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA
Gunnison		10 471	3 238*
Hinsdale		531	1 115*
Huerfano		7 187	1 583*
Jackson		1 732	1 615*
Jefferson		420 750	1 615	.....		
Kiowa		1 947	1 758*
Kit Carson		7 960	2 160*
Lake		6 762	379*
La Plata		31 744	1 692
Larimer		169 855	2 604*
Las Animas		14 778	4 771*
Lincoln		4 547	2 586*
Logan	19 921	1 819	.....		.....
Mesa	98 752	3 309	.....		.....
Mineral		808	877*
Moffat	15 593	4 732	.....		.....
Montezuma		20 001	2 083*
Montrose		26 409	2 240*
Morgan		23 440	1 276
Otero		22 191	1 247*
Ouray		2 241	542*
Park		7 201	2 192*
Phillips		4 653	688*
Pitkin		10 356	968*
Prowers		14 492	1 629*
Pueblo	124 546	2 377	.....		.....
Rio Blanco		6 960	3 222*
Rio Grande		11 468	913*
Routt		13 951	2 267
Saguache		4 141	3 176*

*Less than .5 psi overpressure

STATE OF COLORADO (Continued)

COUNTY	VERY HIGH RISK POPULATION	AREA	HIGH RISK POPULATION	AREA	MEDIUM RISK POPULATION	AREA	LOW/NO* RISK POPULATION	AREA
San Juan	.....	.....	.....	.....	.....	.....	1 085	388
San Miguel	.....	.....	.....	.....	.....	.....	3 006	1 287
Sedgewick	.....	.....	.....	.....	.....	.....	3 187	540
Summit	.....	.....	.....	.....	.....	.....	11 192	607
Teller	.....	.....	.....	.....	11 157	559		
Washington	.....	.....	.....	.....	.....	.....	5 548	2 520
Weid	133 779	3 990	.....	.....	.....	.....
Yuma	.....	.....	.....	.....	.....	.....	9 991	2 365
TOTAL STATE	2 129 554	21 244	420 758	768	11 157	559	688 649	81 081
							(174 605	19 414)
							(514 044	61 677)*

*Less than .5 psi overpressure

STATE OF MONTANA - DIRECT EFFECTS RISK

Estimated 1985 Population: 832,872

Land Area: 145,365 square miles

COUNTY	VERY HIGH RISK GT 10 PSI		HIGH RISK EQ/GT 5PSI LT 10PSI		MEDIUM RISK EQ/GT 2PSI LT 5PSI		LOW/NO* RISK EQ/GT .5PSI LT 2PSI	
	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA
Beaverhead	.....	.....	.....	.....	.....	.....	8 849	5 529*
Big Horn	.....	.....	.....	.....	.....	.....	11 639	4 983
Blaine	7 056	4 259	.....	.....	.....	.....	.....	.....
Broadwater	.....	.....	.....	.....	.....	.....	3 459	1 188*
Carbon	.....	.....	.....	8 734	2 056	.....	.....	.....
Carter	.....	.....	.....	1 751	3 342	.....	.....	.....
Cascade	82 077	2 699	.....	.....	.....	.....	.....	.....
Chouteau	6 186	3 988	.....	.....	.....	.....	13 535	3 776*
Custer	.....	.....	.....	.....	.....	.....	2 758	1 427*
Daniels	.....	.....	.....	.....	.....	.....	.....	.....
Dawson	.....	.....	.....	.....	.....	.....	12 939	2 347*
Deer Lodge	.....	.....	.....	.....	.....	.....	10 873	740*
Fallon	.....	.....	.....	.....	.....	.....	3 767	1 623*
Fergus	12 880	4 340	.....	.....	.....	.....	54 349	5 112*
Flathead	.....	.....	.....	.....	.....	.....	.....	.....
Gallatin	.....	.....	.....	.....	.....	.....	48 749	2 510*
Garfield	.....	.....	.....	.....	.....	.....	1 704	4 491*
Glacier	11 450	2 995	.....	.....	.....	.....	.....	.....
Golden Valley	1 114	1 172	.....	.....	.....	.....	.....	.....
Granite	.....	.....	.....	.....	.....	.....	.....	.....
Hill	.....	.....	.....	.....	.....	.....	2 841	1 729*
Jefferson	.....	.....	.....	8 286	1 656	.....	18 678	2 897*
Judith Basin	2 716	1 871	.....	.....	.....	.....	.....	.....
Lake	.....	.....	.....	.....	.....	.....	20 728	1 493
Lewis and Clark	46 434	3 461	.....	.....	.....	.....	.....	.....

*Less than .5 psi overpressure

STATE OF MONTANA (Continued)

COUNTY	VERY HIGH RISK POPULATION	AREA	HIGH RISK POPULATION	AREA	MEDIUM RISK POPULATION	AREA	LOW/NO* RISK POPULATION	RISK AREA
Liberty	2 597	1 427					18 885	3 616*
Lincoln							2 703	2 626
McCone							5 933	3 590*
Madison							2 247	2 392
Meagher								
Mineral							3 694	1 216*
Missoula	76 535	2 582					4 373	1 871*
Musselshell							13 373	2 665
Park							676	1 652
Petroleum								
Phillips					5 756	5 131		
Pondera	7 155	1 632					2 471	3 288*
Powder River							6 849	2 329
Powell							1 873	1 732*
Prairie								
Ravalli							25 404	2 384
Richland							14 890	2 081*
Roosevelt	11 848	2 357					13 959	5 019*
Rosebud							9 326	2 749*
Sanders								
Sheridan	6 072	1 681					34 471	719*
Silver Bow								
Stillwater					6 114	1 793	3 321	1 856*
Sweetgrass								
Teton	6 424	2 275						
Toole	5 784	1 931					1 019	975*
Treasure								
Valley	9 916	4 936						
Wheatland	2 291	1 419					1 496	888*
Wibaux								

*less than .5 psi overpressure

STATE OF MONTANA (Continued)

COUNTY	VERY HIGH RISK POPULATION	VERY HIGH RISK AREA	HIGH RISK POPULATION	HIGH RISK AREA	MEDIUM RISK POPULATION	MEDIUM RISK AREA	LOW/NO* RISK POPULATION	LOW/NO* RISK AREA
Yellowstone	121 398	2 624						
Yellowstone National	66	245						
TOTAL STATE	419 999	47 939	---	---	30 641	13 978	382 232	83 448
							(83 619	20 524)
							(298 613	62 924)*

*Less than .5 psi overpressure

STATE OF NORTH DAKOTA - - DIRECT EFFECTS RISK

Estimated 1985 Population: 697,576
Land Area: 69,344 square miles

COUNTY	VERY HIGH RISK		HIGH RISK		MEDIUM RISK		LOW/NO* RISK	
	GT 10 PSI POPULATION	AREA	EQ/GT 5PSI LT 10PSI POPULATION	AREA	EQ/GT 2PSI LT 5PSI POPULATION	AREA	EQ/GT .5PSI LT 2PSI POPULATION	AREA
Adams	.....		.....		.....		.....	3 494 988
Barnes	13 666	1 498	.....		.....		.....
Benson	8 099	1 412	.....		.....		.....
Billings	.....		.....		.....		.....	1 332 1 152*
Bottineau	9 120	1 668	.....		.....		.....
Bowman	.....		.....		.....		.....	4 334 1 162*
Burke	3 655	1 118	.....		.....		.....
Burleigh	60 173	1 618	.....		.....		.....
Cass	97 117	1 767	.....		.....		.....
Cavalier	7 029	1 507	.....		.....		.....
Dickey	.....		.....		.....		.....	6 876 1 139*
Divide	3 200	1 288	.....		.....		.....
Dunn	.....		.....		.....		.....	5 380 1 993*
Eddy	3 230	634	.....		.....		.....
Emons	.....		.....		.....		.....	5 692 1 499*
Foster	.....		.....		.....		.....	4 564 640
Golden Valley	.....		.....		.....		.....	2 688 1 003*
Grand Forks	69 331	1 440	.....		.....		.....
Grant	.....		.....		.....		.....	4 147 1 660*
Griggs	3 631	780	.....		.....		.....
Hettinger	3 954	1 133	.....		.....		.....	3 777 1 362*
Kidder	.....		.....		.....		.....	6 037 1 150*
La Moure	.....		.....		.....		.....	3 203 1 000*
Logan	.....		.....		.....		.....
McHenry	7 432	1 887	.....		.....		.....

*Less than .5 psi overpressure

STATE OF NORTH DAKOTA (Continued)

COUNTY	VERY HIGH RISK POPULATION	AREA	HIGH RISK POPULATION	AREA	MEDIUM RISK POPULATION	AREA	LOW/NO* RISK POPULATION	AREA
McIntosh	.....	.....	.....	.....	.....	.....	4 406	984*
McKenzie	.....	.....	8 890	2 754	.....	.....	.....	.....
McLean	13 042	2 065	.....	.....	.....	.....	16 279	1 044
McLeod	.....	.....	.....	.....	.....	.....	.....	.....
Morton	27 044	1 920	.....	.....	.....	.....	.....	.....
Mountrail	8 188	1 837	.....	.....	.....	.....	.....	.....
Nelson	4 946	991	.....	.....	.....	.....	2 724	723
Oliver	.....	.....	.....	.....	.....	.....	.....	.....
Pembina	10 129	1 120	.....	.....	.....	.....	5 998	1 037*
Pierce	.....	.....	.....	.....	.....	.....	.....	.....
Ramsey	13 031	1 241	.....	.....	.....	.....	6 452	862*
Ransom	.....	.....	.....	.....	.....	.....	20 230	1 436*
Renville	3 555	874	.....	.....	.....	.....	13 300	914*
Richland	.....	.....	.....	.....	.....	.....	5 186	858*
Rolette	.....	.....	.....	.....	.....	.....	3 753	1 099*
Sargent	.....	.....	2 606	990	.....	.....	1 148	1 219*
Sheridan	.....	.....	.....	.....	.....	.....	28 911	1 330
Sioux	.....	.....	.....	.....	.....	.....	.....	.....
Slope	.....	.....	.....	.....	.....	.....	.....	.....
Stark	.....	.....	.....	.....	.....	.....	.....	.....
Steele	2 896	714	.....	.....	.....	.....	23 547	2 263*
Stutsman	.....	.....	.....	.....	.....	.....	9 285	861
Towner	.....	.....	.....	4 752	1 036	.....	.....	.....
Trail	.....	.....	.....	.....	.....	.....	.....	.....
Walsh	15 579	1 290	.....	.....	.....	.....	.....	.....
Ward	65 495	2 041	.....	.....	.....	.....	6 793	1 288*
Wells	.....	.....	.....	.....	.....	.....	.....	.....
Williams	28 270	2 047	.....	.....	.....	.....	.....	.....
TOTAL STATE	481 812	33 890	11 496	3 744	4 752	1 036	199 516	30 674

*Less than .5 psi overpressure

(65 257 5 394)

(134 259 25 280)*

STATE OF SOUTH DAKOTA - - DIRECT EFFECTS RISK

Estimated 1985 Population: 708,728
Land Area: 75,956 square miles

COUNTY	VERY HIGH RISK GT 10 PSI		HIGH RISK EQ/GT 5PSI LT 10PSI		MEDIUM RISK EQ/GT 2PSI LT 5PSI		LOW/NO* RISK EQ/GT .5PSI LT 2PSI	
	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA
Aurora	3 435	707*
Beadle	18 136	1 259*
Bennett	3 313	1 161*
Bon Homme	7 814	552*
Brookings	25 165	795*
Brown	36 712	1 722*
Brule	5 408	815*
Buffalo	1 685	476*
Butte
Butte	8 125	2 251	.....	.....	.....	.....	.....	.....
Campbell	2 274	712*
Charles Mix
Clark	9 719	1 090*
Clay	4 950	953*
Codington	13 647	408*
Corson	22 368	695*
Custer	5 243	2 467*
Davison	6 795	1 559
Day	17 806	436*
Deuel	7 893	1 022*
Dewey	5 203	631*
Douglas	5 487	2 310*
Edmunds	3 894	434*
Fall River	4 933	1 149*
Faulk	7 820	1 740*
Grant	3 312	1 003*
Grant	9 582	681*

*Less than .5 psi overpressure

STATE OF SOUTH DAKOTA (Continued)

COUNTY	VERY HIGH RISK		HIGH RISK		MEDIUM RISK		LOW/NO* RISK	
	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA
Gregory	.....	.....	.....	.....	.....	.....	5 871	1 041*
Haakon	2 965	1 822	.....	.....	.....	.....	5 251	512*
Hamlin	.....	.....	.....	.....	.....	.....	4 701	1 437*
Hand	.....	.....	.....	.....	.....	.....	3 290	433*
Hanson	.....	.....	.....	.....	.....	.....	1 889	2 678
Harding	.....	.....	.....	.....	.....	.....	9 045	816*
Hughes	14 830	757	.....	.....	.....	.....	1 909	860*
Hutchinson	.....	.....	.....	.....	.....	.....	2 728	530*
Hyde	.....	.....	.....	.....	.....	.....	1 500	971
Jackson	3 266	1 872	.....	.....	.....	.....	6 493	824*
Jerauld	.....	.....	.....	.....	.....	.....	11 002	560*
Jones	.....	.....	.....	.....	.....	.....	3 892	1 679
Kingbury	.....	.....	.....	.....	.....	.....	6 234	576*
Lake	.....	.....	.....	.....	.....	.....	3 766	1 148*
Lawrence	19 380	800	.....	.....	.....	.....	5 209	848*
Lincoln	.....	.....	.....	.....	.....	.....	3 482	570*
Lyman	14 384	578	.....	.....	.....	.....	6 964	520*
McCook	.....	.....	.....	.....	.....	.....	3 715	869*
McPherson	.....	.....	.....	.....	.....	.....	11 063	1 102*
Marshall	.....	.....	.....	.....	.....	.....	3 093	569*
Meade	21 716	3 481	.....	.....	.....	.....	*less than .5 psi overpressure	
Mellette	2 365	1 311	.....	.....	.....	.....
Miner	.....	.....	.....	.....	.....	.....	75 780	2 783
Minnabaha	120 296	810	.....	.....	.....	.....	4 649	2 885
Moody	.....	.....	.....	.....	.....	.....	Pennington	.....
	.....	.....	.....	.....	.....	.....	Perkins	.....
	.....	.....	.....	.....	.....	.....	Potter	.....
	.....	.....	.....	.....	.....	.....	Roberts	.....
	.....	.....	.....	.....	.....	.....	Sanborn	.....

STATE OF SOUTH DAKOTA (Continued)

COUNTY	VERY HIGH RISK POPULATION	AREA	HIGH RISK POPULATION	AREA	MEDIUM RISK POPULATION	AREA	LOW/NO* RISK POPULATION	AREA
Shannon	.....		.....		.....		11 207	2 094
Spink	.....		.....		.....		9 081	1 505*
Stanley	2 451	1 432						
Sully	.....		.....		.....		1 868	972
Todd	.....		.....		.....		7 256	1 388*
Tripp	.....		.....		.....		7 188	1 618*
Turner	.....		.....		.....		9 126	617
Union	.....		.....		.....		10 774	453
Walworth	.....		.....		.....		6 624	707*
Yankton	.....		.....		.....		19 123	518*
Ziebach	.....		2 493	1 969				
TOTAL STATE	290 207	20 782	2 493	1 969	---	---	416 028	53 205
							(47 051	10 623)
							(368 977	42 582)*

*less than .5 psi overpressure

STATE OF UTAH - - DIRECT EFFECTS RISK

Estimated 1985 Population: 1,698,867
Land Area: 82,094 square miles

COUNTY	VERY HIGH RISK		HIGH RISK		MEDIUM RISK		LOW/NO* RISK	
	GT 10 PSI POPULATION	AREA	EQ/GT 5PSI LT 10PSI POPULATION	AREA	EQ/GT 2PSI LT 5PSI POPULATION	AREA	EQ/GT .5PSI LT 2PSI POPULATION	AREA
Beaver	5 280	2 586*
Box Elder	37 769	5 614	.....	.....	.....	.....	.....	.....
Cache	66 658	1 171	.....	.....
Carbon	26 132	1 479*
Daggett	856	699*
Davis	174 969	299	.....	.....	.....	.....	.....	.....
Duchesne	16 271	3 234	.....	.....	.....	.....	.....	.....
Emery	13 911	4 449*
Garfield	4 319	4 449*
Grand	7 957	3 689
Iron
Juab	20 357	3 302*
Kane	6 274	3 396*
Millard	4 509	3 898	.....	.....
Morgan	13 762	6 818*
.....	5 285	603
Plute
Rich	1 476	759*
Salt Lake	716 909	756	.....	.....	.....	.....	2 638	1 034*
San Juan	12 096	7 725*
Sanpete	17 343	1 586*
Sevier
Summit	16 360	1 910*
Tooele	13 230	1 865
Utah	29 408	6 919	.....	.....	.....	.....	.....	.....
.....	29 848	4 479	.....	.....	246 181	2 018

*Less than .5 psi overpressure

STATE OF UTAH (Continued)

COUNTY	VERY HIGH RISK		HIGH RISK		MEDIUM RISK		LOW/NO* RISK	
	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA
Kane	.....	.....	.....	.....	.....	.....	10 044	1 191
Kane	.....	.....	.....	.....	.....	.....	34 783	2 422*
Kane	.....	.....	.....	.....	.....	.....	2 136	2 461*
Wasatch	.....	.....	.....	.....	.....	.....	.....	.....
Washington	.....	.....	.....	.....	.....	.....	.....	.....
Wayne	.....	.....	.....	.....	.....	.....	.....	.....
Weber	162 106	566	.....	.....	.....	.....	.....	.....
TOTAL STATE	1 137 432	17 388	28 848	4 479	71 167	5 069	461 420	55 158
							(282 697	9 366)
							(176 723	45 792)*

*Less than .5 psi overpressure

STATE OF WYOMING - - DIRECT EFFECTS RISK

Estimated 1985 Population: 521,570
Land Area: 97,086 square miles

COUNTY	VERY HIGH RISK GT 10 PSI POPULATION	AREA	HIGH RISK EQ/GT 5PSI LT 10PSI POPULATION	AREA	MEDIUM RISK EQ/GT 2PSI LT 5PSI POPULATION	AREA	LOW/NO* RISK EQ/GT .5PSI LT 2PSI POPULATION	AREA
Albany	.....		.....		.....		30 328	4 286
Big Horn	12 559	3 139	.....		.....		.....
Campbell	.....		.....		.....		37 605	4 796*
Carbon	20 407	7 878	.....		.....		.....
Converse	15 207	4 271	.....		.....		.....
Crook	.....		.....	6 058	2 856	.....	36 886	9 181*
Fremont	.....		.....		.....		6 119	2 005*
Goshute	12 430	2 186	.....		.....		7 107	4 166*
Hot Springs	.....		.....		.....		.....
Johnson	.....		.....		.....		.....
Laramie	73 254	2 864	.....		.....		3 358	2 685*
Lincoln	15 176	4 070	.....		.....		.....
Natrona	75 746	5 247	.....		.....		.....
Niobrara	.....		.....		.....		.....
Park	25 213	6 936	.....		.....		.....
Platte	9 369	2 023	.....		.....		27 466	2 532*
Sheridan	.....		.....		.....		.....
Sublette	.....		.....		5 572	4 871	.....
Sweetwater	45 791	10 352	.....		.....		11 553	4 012*
Teton	.....		.....		.....		.....
Uinta	.....		.....		.....		26 235	2 085*
Washakie	.....		.....		.....		10 106	2 243*
Weston	8 025	2 402	.....		.....		.....

TOTAL STATE

313 177 51 368

6 058 2 856

5 572 4 871

196 763 37 991

* Less than .5 psi overpressure

(30 328 4 286)
(166 435 33 705)*

F E M A R E G I O N I X - - D I R E C T E F F E C T S R I S K S U M M A R Y

Estimated 1985 Population: 31,504,342
Land Area: 386,970 square miles

STATE	VERY HIGH RISK		HIGH RISK		MEDIUM RISK		LOW RISK	
	GT 10 PSI POPULATION	AREA	EQ/GT 5PSI LT 10PSI POPULATION	AREA	EQ/GT 2PSI LT 5PSI POPULATION	AREA	EQ/GT .5PSI LT 2PSI POPULATION	AREA
Arizona	2 736 846	66 420	---	---	123 720	6 851	278 422	40 549
							(53 418	11 211)
							(225 004	29 388)*
California	23 833 741	87 405	---	---	1 192 975	15 170	1 079 128	53 700
							(728 659	19 776)
							(350 469	33 924)*
Hawaii	.....[DATA AVAILABLE SEPARATELY]							
Nevada	837 864	37 489	---	---	37 553	2 751	62 774	69 691
							(3 408	3 851)
							(59 366	65 840)*
American Samoa	.....[DATA AVAILABLE SEPARATELY]							
Guam	.....[DATA AVAILABLE SEPARATELY]							
Trust Territory	.....[DATA AVAILABLE SEPARATELY]							
TOTAL REGION IX	27 408 451	191 318	---	---	1 354 248	24 772	1 420 324	163 940
							(785 485	34 838)
							(634 839	129 102)*

*Less than .5 psi overpressure

STATE OF ARIZONA - - DIRECT EFFECTS RISK

Estimated 1985 Population: 3,138 988
Land Area: 113,550 square miles

COUNTY	VERY HIGH RISK		HIGH RISK		MEDIUM RISK		LOW/NO* RISK	
	GT 10 PSI POPULATION	AREA	EQ/GT 5PSI LT POPULATION	AREA	EQ/GT 2PSI LT POPULATION	AREA	EQ/GT .5PSI LT POPULATION	AREA
Apache	.....	.....	.....	.....	.....	.....	53 418	11 211
Cochise	95 247	6 219	.....	.....	.....	.....	.....	.....
Cocconino	85 381	18 608	.....	.....	.....	.....	38 830	4 753*
Gila	.....	.....	.....	.....	.....	.....	23 316	4 631*
Graham	.....	.....	.....	.....	.....	.....	.....	.....
Greenlee	.....	.....	.....	.....	.....	.....	9 640	1 837*
Maricopa	1 766 060	9 127	.....	.....	.....	.....	.....	.....
Mohave	71 818	13 285	.....	.....	.....	.....	72 022	9 995*
Navajo	.....	.....	.....	.....	.....	.....	.....	.....
Pima	610 597	9 187	.....	.....	.....	.....	.....	.....
Pinal	.....	.....	.....	.....	102 303	5 343	.....	.....
Santa Cruz	.....	.....	.....	.....	21 417	1 238	.....	.....
Yavapai	.....	.....	.....	.....	.....	.....	81 196	8 122*
Yuma	107 743	9 994	.....	.....	.....	.....	.....	.....

TOTAL STATE	2 736 846	66 420	----	----	123 770	6 581	278 422	40 549
							(53 418	11 211)
							(225 004	29 388)*

*Less than .5 psi overpressure

STATE OF CALIFORNIA -- DIRECT EFFECTS RISK

Estimated 1985 Population: 26,105,844
Land Area: 156,279 square miles

COUNTY	VERY HIGH RISK GT 10 PSI		HIGH RISK EQ/GT 5PSI LT 10PSI		MEDIUM RISK EQ/GT 2PSI LT 5PSI		LOW/NO* RISK EQ/GT .5PSI LT 2PSI	
	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA
Alameda	1 190 343	736					1 141	739*
Alpine							22 813	589
Anadior							162 165	1 646
Butte							26 876	1 021
Calaveras								
Colusa							14 543	1 153*
Contra Costa	708 382	730						
Del Norte	18 370	1 007					102 112	1 715
El Dorado								
Fresno	574 401	5 978						
Glenn							22 999	1 319*
Humboldt								
Imperial					112 294	3 579		
Inyo	104 881	4 173					18 372	10 223*
Kern	477 128	8 130						
Kings	83 706	1 392						
Lake							47 940	1 262*
Lassen	24 433	4 553						
Los Angeles	8 006 962	4 070					76 585	2 145
Madera								
Marin	224 538	523					13 230	1 456
Mariposa								
Mendocino	72 881	3 512						
Merced	159 970	1 944					9 810	4 046*
Modoc								

*Less than .5 psi overpressure

STATE OF CALIFORNIA (Continued)

COUNTY	VERY HIGH RISK POPULATION	AREA	HIGH RISK POPULATION	AREA	MEDIUM RISK POPULATION	AREA	LOW/NO* RISK POPULATION	RISK AREA
.....	.....	.....	.....	.....	.....	.....	9 243	3 019*
.....	326 370	3 303	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	102 667	744	68 276	960
.....
.....	2 111 396	798	.....	.....	.....	.....	.....	.....
.....
.....	805 521	7 214	.....	.....	137 111	1 416	.....	.....
.....	887 649	971	.....	.....	18 745	2 573	.....	.....
.....	.....	.....	.....	.....	.....	.....	30 150	1 388
.....
.....	1 068 239	20 064	.....	.....	.....	.....	.....	.....
.....	2 114 283	4 212	.....	.....	.....	.....	.....	.....
.....	721 187	46	.....	.....	.....	.....	.....	.....
.....	411 407	1 415	.....	.....	.....	.....	.....	.....
.....	184 867	3 308	.....	.....	.....	.....	.....	.....
.....
.....	609 317	447	.....	.....	.....	.....	.....	.....
.....	328 764	2 748	.....	.....	.....	.....	.....	.....
.....	1 390 579	1 293	.....	.....	210 206	446	129 180	3 786*
.....
.....
.....
.....	273 235	834	.....	.....	.....	.....	3 403	959
.....	.....	.....	.....	.....	.....	.....	42 324	6 281
.....	303 105	1 506	.....	.....	332 912	1 604	.....	.....
.....
.....	.....	.....	.....	.....	.....	.....	58 181	602
.....	.....	.....	.....	.....	.....	.....	44 142	2 953*
.....	.....	.....	.....	.....	.....	.....	13 486	3 190*
.....
.....	.....	.....	.....	.....	279 040	4 808	39 613	2 234*
.....

*Less than .5 psi overpressure

STATE OF CALIFORNIA (Continued)

COUNTY	VERY HIGH RISK		HIGH RISK		MEDIUM RISK		LOW/NO* RISK	
	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA
Ventura	598 564	1 862						
Yolo	.....		.....		.....		122 536	1 014
Yuba	53 263	640						
TOTAL STATE	23 833 741	87 409	---	---	1 192 975	15 170	1 079 128	53 700
							(728 659	19 776)
							(350 469	33 924)*

*Less than .5 psi overpressure

STATE OF HAWAII -- DIRECT EFFECTS RISK

Estimated 1985 Population: 1,057,270
Land Area: 6,427 square miles

COUNTY	VERY HIGH RISK GT 10 PSI		HIGH RISK EQ/GT 5PSI LT 10PSI		MEDIUM RISK EQ/GT 2PSI LT 5PSI		LOW/NO* RISK EQ/GT .5PSI LT 2PSI	
	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA
Hawaii	[DATA AVAILABLE SEPARATELY]	.....	.....	.....	.....	109 953	4 034
Honolulu	[DATA AVAILABLE SEPARATELY]	.....	.....	.....	.....	815 900	597
Kalawao	[DATA AVAILABLE SEPARATELY]	.....	.....	.....	.....	144	14
Kauai	[DATA AVAILABLE SEPARATELY]	.....	.....	.....	.....	45 191	620
Maul	[DATA AVAILABLE SEPARATELY]	.....	.....	.....	.....	86 082	1 162

TOTAL STATE --- --- --- --- --- --- 1 057 270 6 427

*Less than .5 psi overpressure

STATE OF NEVADA - - DIRECT EFFECTS RISK

Estimated 1985 Population: 938,191
Land Area: 109,895 square miles

COUNTY	VERY HIGH RISK		HIGH RISK		MEDIUM RISK		LOW/NO* RISK	
	GT 10 PSI POPULATION	AREA	EQ/GT 5PSI LT 10PSI POPULATION	AREA	EQ/GT 2PSI LT 5PSI POPULATION	AREA	EQ/GT .5PSI LT 2PSI POPULATION	AREA
Churchill	14 479	4 990						
Clark	554 764	7 881			21 345	708		
Douglas							21 012	17 135*
Elko							1 531	3 587
Emeralda								
Eureka							1 342	4 175*
Humboldt							11 285	9 698*
Lander							4 455	5 515*
Lincoln							3 493	10 635*
Lyon					16 208	2 007		
Mineral							5 961	3 744*
Nye	15 772	18 155						
Pershing							3 587	6 036*
Storey							1 877	264
Washoe	215 966	6 317						
White Pine							8 231	8 902*
Carson City (Ind)	36 883	146						

TOTAL STATE	837 864	37 489	---	---	37 553	2 715	62 774	69 691
							(3 408	(3 851)
							(59 366	(65 840)*

*Less than .5 psi overpressure

TERRITORY OF AMERICAN SAMOA -- DIRECT EFFECTS RISK

Estimated 1980 Population: 35,000
Land Area: 77 square miles

COUNTY	VERY HIGH RISK GT 10 PSI POPULATION	AREA	HIGH RISK EQ/GT 5PSI LT POPULATION	AREA	MEDIUM RISK EQ/GT 2PSI LT 5PSI POPULATION	AREA	LOW/NO* RISK EQ/GT .5PSI LT 2PSI POPULATION	AREA
Entire Territory	[DATA AVAILABLE SEPARATELY]	.....	35 000	77			
TOTAL TERRITORY	---	---	---	---	---	---	35 000	77

*Less than .5 psi overpressure

TERRITORY OF GUAM - - DIRECT EFFECTS RISK

Estimated 1985 Population: 112,900
Land Area: 209 square miles

COUNTY	VERY HIGH RISK GT 10 PSI POPULATION	HIGH RISK EQ/GT 5PSI LT 10PSI POPULATION	MEDIUM RISK EQ/GT 2PSI LT 5PSI POPULATION	LOW/NO* RISK EQ/GT .5PSI LT 2PSI POPULATION
Entire Territory	---	---	---	112 900
TOTAL TERRITORY	---	---	---	112 900

Entire Territory[DATA AVAILABLE SEPARATELY]..... 112 900 209

TOTAL TERRITORY --- --- --- --- 112 900 209

*Less than .5 psi overpressure

U. S. T R U S T T E R R I T O R Y - - D I R E C T E F F E C T S R I S K

Estimated 1980 Population: 116,149
Land Area: 533 square miles

COUNTY	VERY HIGH RISK		HIGH RISK		MEDIUM RISK		LOW/NO* RISK	
	GT 10 PSI POPULATION	AREA	EQ/GT 5PSI LT 10PSI POPULATION	AREA	EQ/GT 2PSI LT 5PSI POPULATION	AREA	EQ/GT .5PSI LT 2PSI POPULATION	AREA

Entire Territory[DATA AVAILABLE SEPARATELY]..... 116 149 533

TOTAL TERRITORY --- --- --- --- --- 116 149 533

*Less than .5 psi overpressure

F E N A R E G I O N X - D I R E C T E F F E C T S R I S K S U M M A R Y

Estimated 1985 Population: 8,634,750
Land Area: 815,946 square miles

STATE	VERY HIGH RISK		HIGH RISK		MEDIUM RISK		LOW/NO* RISK	
	GT 10 PSI POPULATION	AREA	EQ/GT 5PSI LT 10 PSI POPULATION	AREA	EQ/GT 2PSI LT 5PSI POPULATION	AREA	EQ/GT .5PSI LT 2PSI POPULATION	AREA
Alaska	.....[DATA AVAILABLE SEPARATELY].....							
Idaho	363 270	8 838	22 102	468	105 730	3 336	523 179	69 277
							(144 356	11 652)
							(378 823	57 625)*
Oregon	1 043 460	14 949	45 358	741	532 016	4 639	1 063 092	75 858
							(277 287	10 664)
							(785 885	65 194)*
Washington	3 838 312	38 943	---	---	63 737	2 330	500 223	25 239
							(231 863	13 409)
							(208 360	23 930)*

TOTAL REGION X	5 245 042	62 730	67 460	1 209	701 483	10 305	2 086 494	170 374
							(653 506	35 725)
							(1 432 988	134 649)*

*Less than .5 psi overpressure

STATE OF ALASKA - - DIRECT EFFECTS RISK

Estimated 1985 Population: 534,271
Land Area: 570,833 square miles

COUNTY	VERY HIGH RISK		HIGH RISK		MEDIUM RISK		LOW RISK	
	GT 10 PSI POPULATION	AREA	EQ/GT 5PSI LT 10PSI POPULATION	AREA	EQ/GT 2PSI LT 5PSI POPULATION	AREA	EQ/GT .5PSI LT 2PSI POPULATION	AREA
Aleutian Islands		7 066	10 890
Anchorage		239 699	1 732
Bethel	..... [DATA		.....		.....		12 358	36 104
Bristol Bay		1 142	531
Dillingham		4 988	46 042
Fairbanks North		64 320	7 404
Haines		1 997	2 374
Juneau	..... AVAILABLE		.....		.....		24 835	2 626
Kenai Peninsula		43 080	16 056
Ketchikan Gateway		13 381	1 242
Kobuk		5 768	31 593
Kodiak Island		17 229	4 796
Matanuska-Susitna	..... SEPARATELY]		.....		.....		32 533	24 502
Nome		7 758	23 871
North Slope		5 303	90 955
Prince of Wales		5 077	7 660
Sitka		7 344	2 938
Skagway-Yakutat		4 068	13 239
SE Fairbanks		6 428	24 169
Valdez-Cordova		8 583	39 229
Wade Hampton		5 725	17 816
Wrangell-Petersburg		6 396	5 965
Yukon-Koyukuk		9 193	159 099

TOTAL STATE ----- 534 271 570 833

STATE OF IDAHO - - DIRECT EFFECTS RISK

Estimated 1985 Population: 1,014,281
Land Area: 82,414 square miles

COUNTY	VERY HIGH RISK GT 10 PSI		HIGH RISK EQ/GT 5PSI LT 10PSI		MEDIUM RISK EQ/GT 2PSI LT 5PSI		LOW/NO* RISK EQ/GT .5PSI LT 2PSI	
	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA
Ada	193 281	1 052					3 432	1 362*
Adams								
Bannock	69 355	1 112					7 181	990
Bear Lake							8 678	784
Benewah								
Bingham					38 633	2 096		
Blaine							13 418	2 635*
Boise							2 907	1 901
Bonner							26 862	1 727*
Bonneville	69 727	1 840						
Boundary							7 620	1 268*
Butte							3 359	2 236*
Camas							765	1 071*
Canyon							88 722	584
Caribou	8 673	1 763						
Cassia							21 278	2 560*
Clark							779	1 763*
Clearwater							10 291	2 236*
Custer							6 866	4 927*
Elmore	22 234	3 071						
Franklin							9 856	664*
Prescott							10 996	1 852*
Gem							11 460	558
Gooding							12 580	728*
Idaho							14 527	8 497*

*Less than .5 psi overpressure

STATE OF IDAHO (Continued)

COUNTY	VERY HIGH RISK		HIGH RISK		MEDIUM RISK		LOW/NO* RISK	
	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA
Jefferson	16 569	1 093
Jerome	16 212	601*
Kootenai	67 097	1 240	30 625	1 077*
Latah	7 891	4 564*
Lemhi	3 922	478*
Lewis	3 756	1 205*
Lincoln	22 102	468*
Madison	21 531	758*
Minidoka	33 254	845*
Nez Perce	3 539	1 200*
Oneida	8 839	7 643
Owyhee	15 937	405*
Payette	16 897	2 641*
Power	6 852	1 403	.....	.....	3 302	448*
Shoshone	56 904	1 944*
Teton	7 000	3 670*
Twin Falls	8 572	1 454*
Valley	523 179	69 277
Washington	(144 356	11 652)
TOTAL STATE	363 270	8 838	22 102	468	105 730	3 336	(378 823	57 625)*

*Less than .5 psi overpressure

STATE OF OREGON - - DIRECT EFFECTS RISK

Estimated 1985 Population: 2,683,926
Land Area: 96,187 square miles

COUNTY	VERY HIGH RISK		HIGH RISK		MEDIUM RISK		LOW/NO* RISK	
	GT 10 PSI POPULATION	AREA	EQ/GT 5PSI POPULATION	AREA	EQ/GT 2PSI POPULATION	AREA	EQ/GT .5PSI POPULATION	AREA
Baker	16 399	3 072*
Benton	65 950	679*
Clackamas
Clatsop	32 360	805	.....	.....	255 328	1 870	.....	.....
Columbia	37 060	651	.....	.....	.....	.....	.....	.....
Coos	60 458	1 606	.....	.....	.....	.....	.....	.....
Crook	13 003	2 984*
Curry	16 878	1 629
Deschutes	65 782	3 025*
Douglas	91 809	5 044
Gilliam	1 883	1 213*
Grant	8 231	4 525*
Harney	6 989	10 174*
Hood River	16 536	521*
Jackson	136 961	2 787*
Jefferson	12 797	1 789*
Josephine	64 672	1 640*
Klamath	58 300	5 954	.....	.....	.....	.....	.....	.....
Lake	7 880	8 251*
Lane	264 127	4 562*
Lincoln	37 132	980
Linn	90 056	2 296
Malheur	29 073	9 861*
Marion
Morrow	211 140	1 184	.....	.....	.....	.....	.....	.....

..... 7 813 2 044
*Less than .5 psi overpressure

STATE OF OREGON (Continued)

COUNTY	VERY HIGH RISK		HIGH RISK		MEDIUM RISK		LOW/NO* RISK	
	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA	POPULATION	AREA
Multnomah	561 570	431						
Folk			45 358	741			2 294	827*
Sherman								
Tillamook	21 679	1 101						
Umatilla	60 893	3 217						
Union							24 745	2 036*
Wallowa							7 595	3 150*
Wasco							22 521	2 385*
Washington					268 875	725		
Wheeler							1 489	1 713*
Yamhill							58 290	715
TOTAL STATE	1 043 460	14 949	45 358	741	532 016	4 639	1 063 092	75 858
							(277 287	10 664)
							(785 885	65 194)*

*Less than .5 psi overpressure

STATE OF WASHINGTON - - DIRECT EFFECTS RISK

Estimated 1985 Population: 4,402,272
Land Area: 66,512 square miles

COUNTY	VERY HIGH RISK		HIGH RISK		MEDIUM RISK		LOW/NO* RISK	
	GT 10 PSI POPULATION	AREA	EQ/GT 5PSI LT POPULATION	AREA	EQ/GT 2PSI LT POPULATION	AREA	EQ/GT .5PSI LT POPULATION	AREA
Adams	.....		.....		.....		13 664	1 922
Asotin	.....		.....		.....		17 309	635*
Benton	113 359	1 715	.....		.....		49 587	2 915*
Chelan	.....		.....		.....
Clallam	52 381	1 753	.....		.....
Clark	207 459	627	.....		.....		4 031	864*
Columbia	.....		.....		.....
Cowlitz	79 164	1 139	.....		.....		24 068	1 817*
Douglas	.....		.....		.....		6 023	2 200*
Ferry	.....		.....		.....
Franklin	.....		.....		36 914	1 243	2 567	706*
Garfield	.....		.....		.....		64 224	1 918
Grant	52 678	2 660	.....		.....
Grays Harbor	.....		.....		.....
Island	48 374	212	.....		.....
Jefferson	17 748	1 805	.....		.....		25 016	2 308
King	1 337 360	2 128	.....		.....		16 603	1 880*
Kitsap	169 172	393	.....		.....
Kittitas	.....		.....		.....		57 735	2 409*
Klickitat	.....		.....		.....		9 627	2 310
Lewis	.....		.....		.....		35 586	961
Lincoln	.....		.....		.....		33 037	5 281*
Mason	.....		.....		.....
Okanogan	.....		.....		.....
Pacific	.....		.....		.....

*Less than .5 psi overpressure
17 922 908

STATE OF WASHINGTON (Continued)

COUNTY	VERY HIGH RISK POPULATION	AREA	HIGH RISK POPULATION	AREA	MEDIUM RISK POPULATION	AREA	LOW/NO* RISK POPULATION	AREA
Pend Oreille	.....		.....		.....		8 902	1 400*
Pierce	523 288	1 675	.....		.....
San Juan	.....		.....		8 901	179		
Skagit	70 097	1 735	.....		.....		7 467	1 672*
Skamania	.....		.....		.....
Snohomish	375 615	2 098	.....		.....
Spokane	355 552	1 764	.....		.....		31 565	2 468
Stevens	.....		.....		.....
Thurston	141 832	727	.....		.....		3 681	261
Wahkiakum	.....		.....		.....
Walla Walla	.....		.....		.....		48 500	1 261
Whitcom	113 087	2 125	.....		.....		41 031	2 151*
Whitman	.....		.....		.....
Yakima	181 146	4 287	.....		.....
TOTAL STATE	3 838 312	38 943	----	----	63 737	2 330	500 223	25 239
							(231 863	13 409)
							(208 360	23 930)*

*Less than .5 psi overpressure